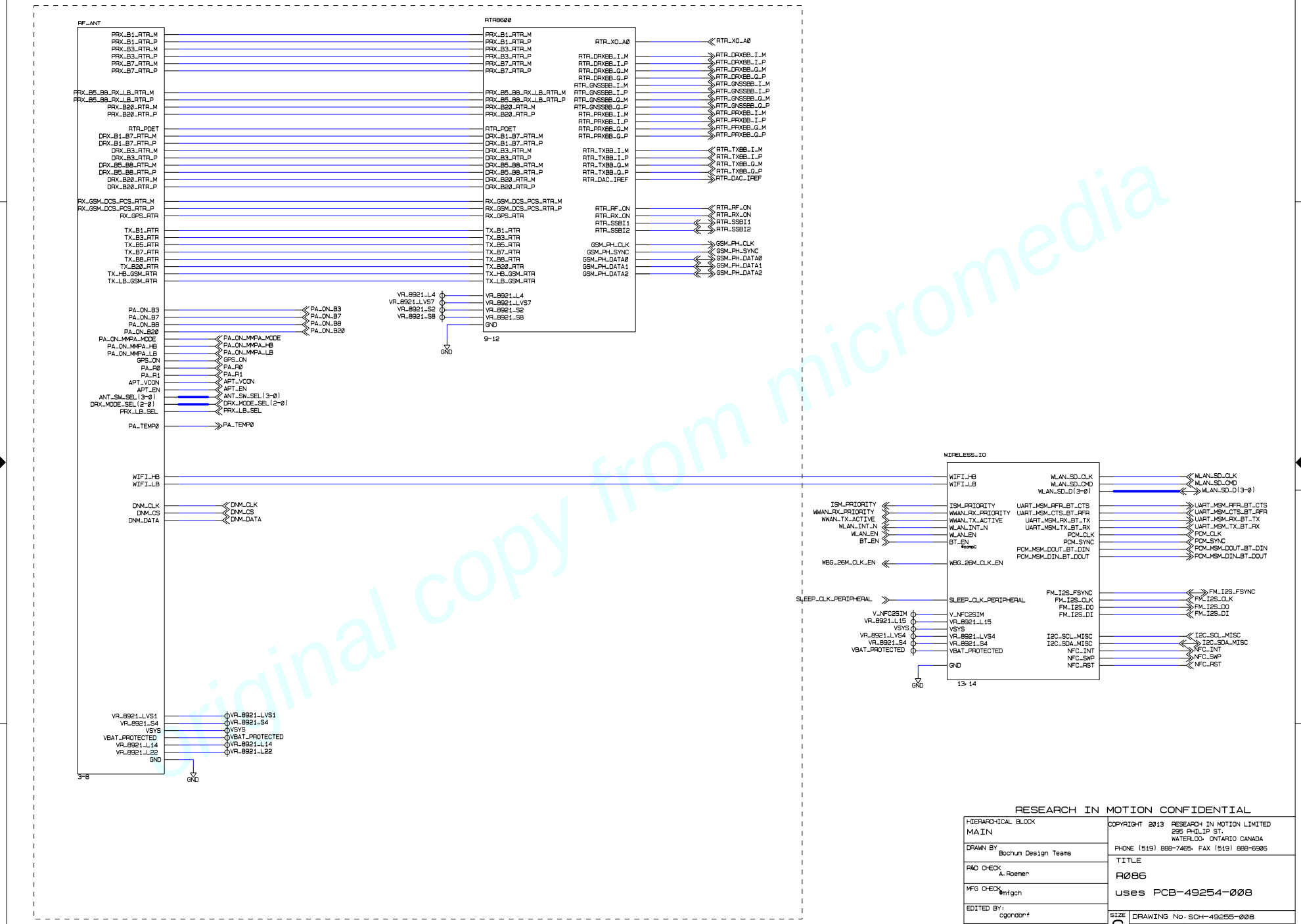
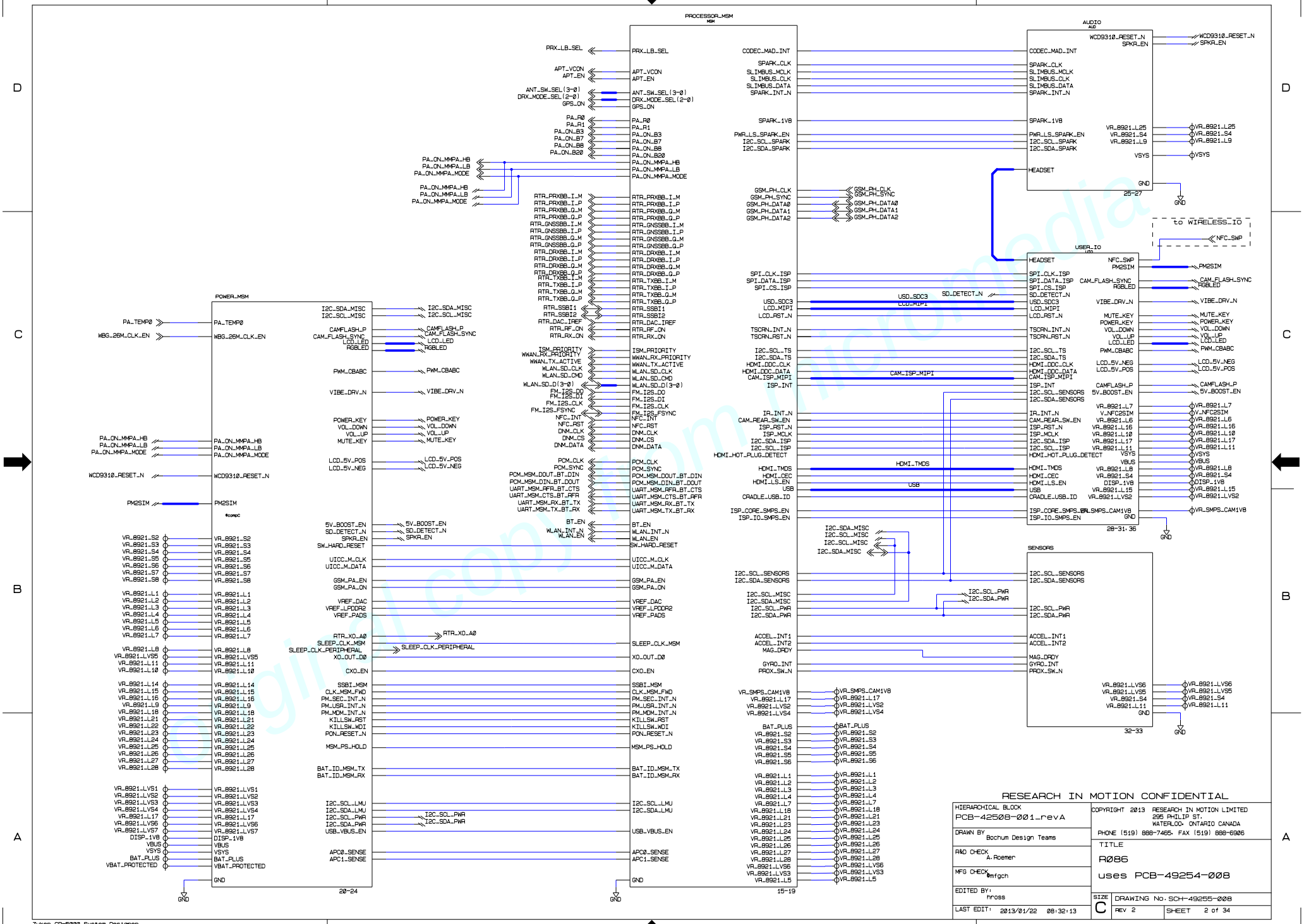
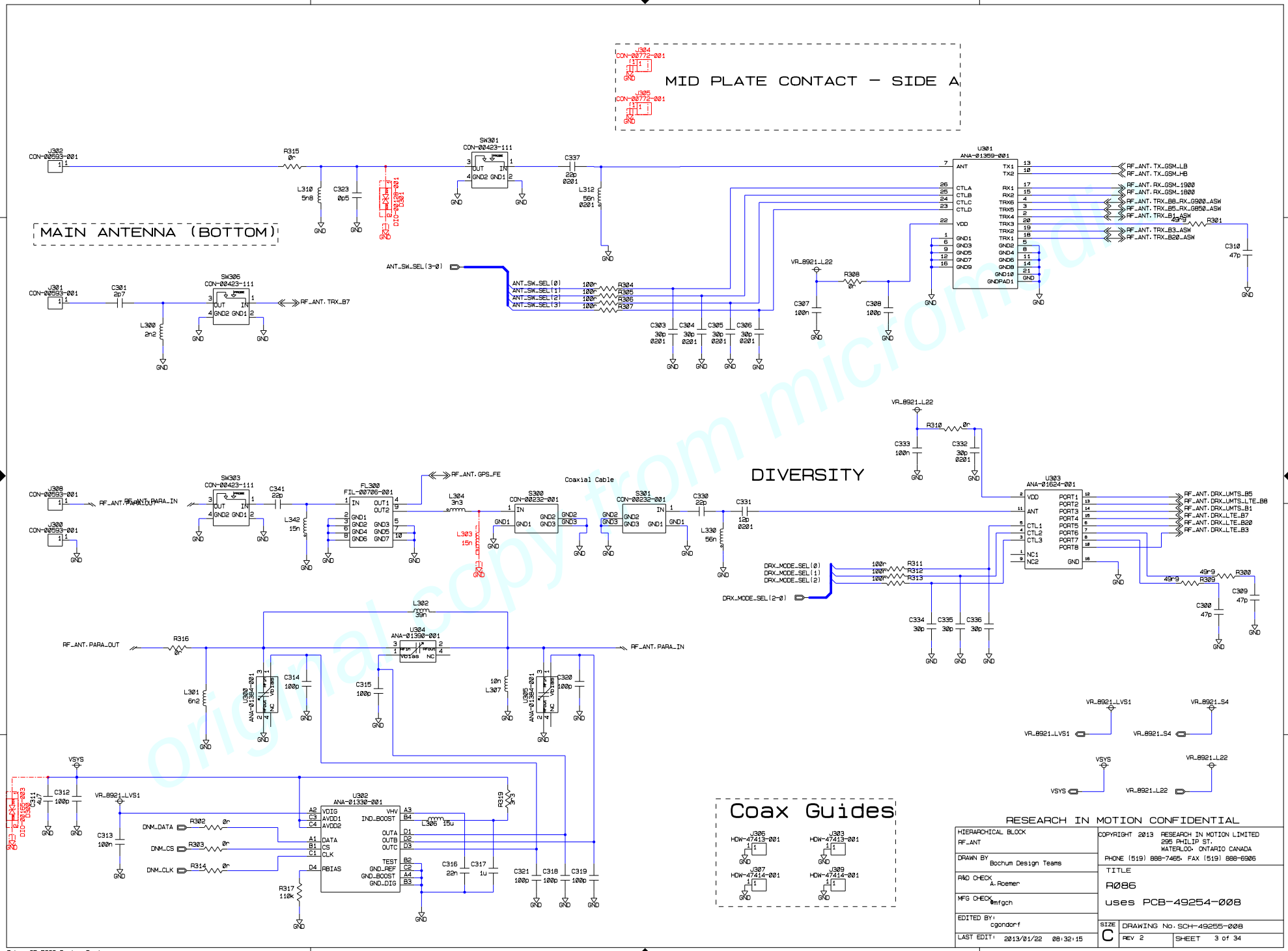


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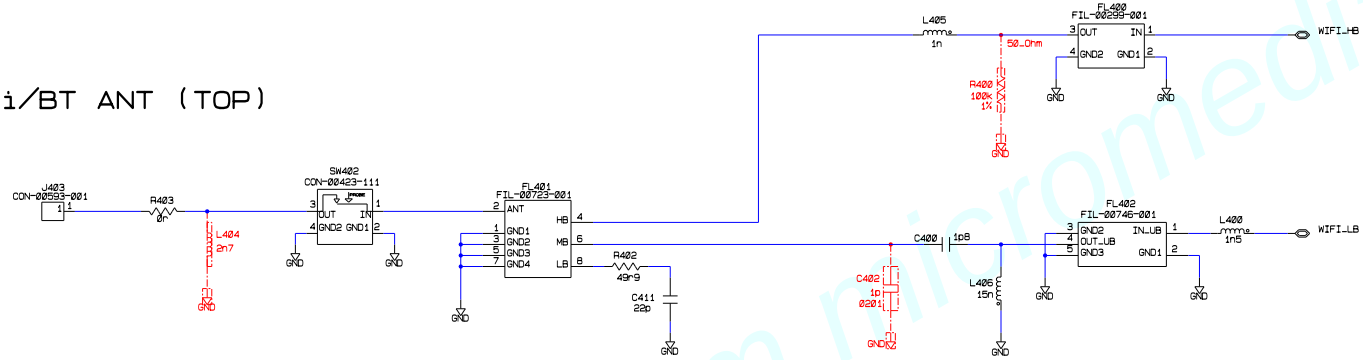
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DRAWN BY: Bochum Design Teams	TITLE: R086 uses PCB-49254-008
R&D CHECK: A. Roemer	
MFG CHECK: @mfgch	
EDITED BY: cgondorf	SIZE: C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 09:18:44	REV 2 — SHEET 1 of 34

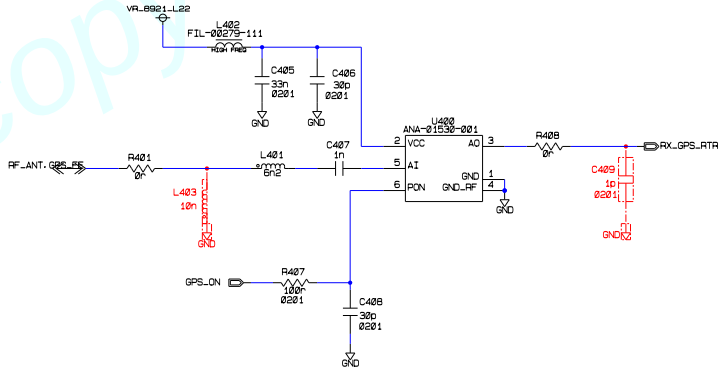

PROCESSOR_MSM
MSM
POWER_MSM
AUDIO
AUD
USER_IO
UIO
SENSORS
to WIRELESS_IO
20-24
15-19
25-27
28-31,36
32-33
GND
PA_TEMP0
WBG_26M_CLK_EN
WCD9310_RESET_N
PM2SIM
SPKR_EN
HEADSET
NFC_SWP
CAM_FLASH_SYNC
RGBLED
VIBE_DRV_N
MUTE_KEY
POWER_KEY
VOL_DOWN
VOL_UP
LCD_LED
PWM_CBABC
LCD_5V_NEG
LCD_5V_POS
CAMFLASH_P
5V_BOOST_EN
VSYS
VBUS
BAT_PLUS
VBAT_PROTECTED
DISP_1V8
HDMI_TMDS
USB
I2C_SCL_SENSORS
I2C_SDA_SENSORS
I2C_SCL_PWR
I2C_SDA_PWR
ACCEL_INT1
ACCEL_INT2
MAG_DRDY
GYRO_INT
PROX_SW_N
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HIERARCHICAL BLOCK
PCB-42508-001_revA
DRAWN BY
Bochum Design Teams
R&D CHECK
A. Roemer
MFG CHECK
@mfgch
EDITED BY:
hross
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COPYRIGHT 2013 RESEARCH IN MOTION LIMITED
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PHONE (519) 888-7465, FAX (519) 888-6906
TITLE
R086
uses PCB-49254-008
SIZE
C
DRAWING No. SCH-49255-008
REV 2
SHEET 2 of 34
Zuken CR-5000 System Designer


MID PLATE CONTACT – SIDE A
MAIN ANTENNA (BOTTOM)
DIVERSITY
Coax Guides
RESEARCH IN MOTION CONFIDENTIAL
HIERARCHICAL BLOCK
RF_ANT
DRAWN BY
Bochum Design Teams
R&D CHECK
A. Roemer
MFG CHECK
@mfgch
EDITED BY:
cgondorf
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R086
uses PCB-49254-008
SIZE
C
DRAWING No. SCH-49255-008
REV 2
SHEET 3 of 34
Zuken CR-5000 System Designer

2.4G/5G WiFi/BT ANT (TOP)



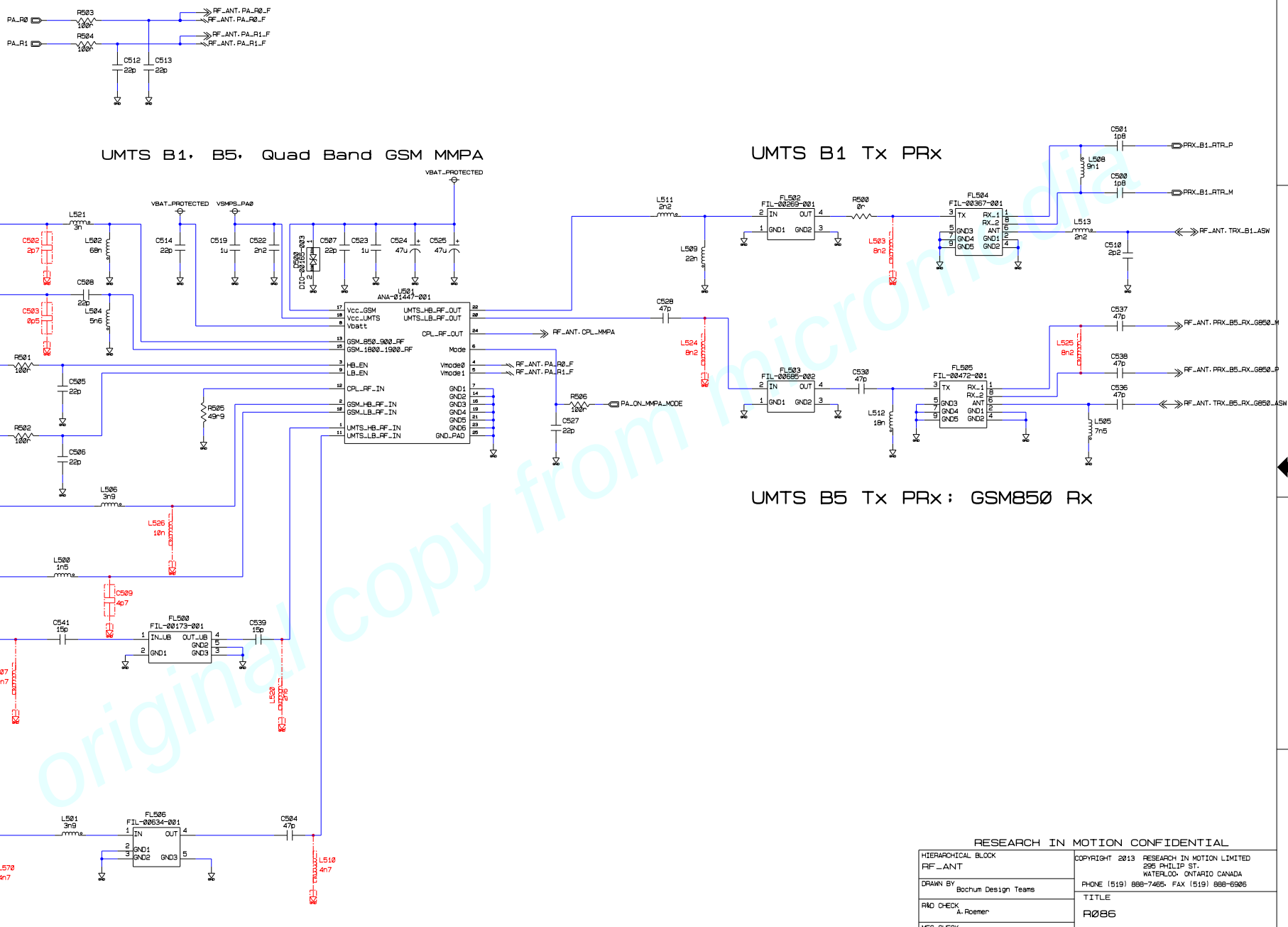
GPS FRONTEND



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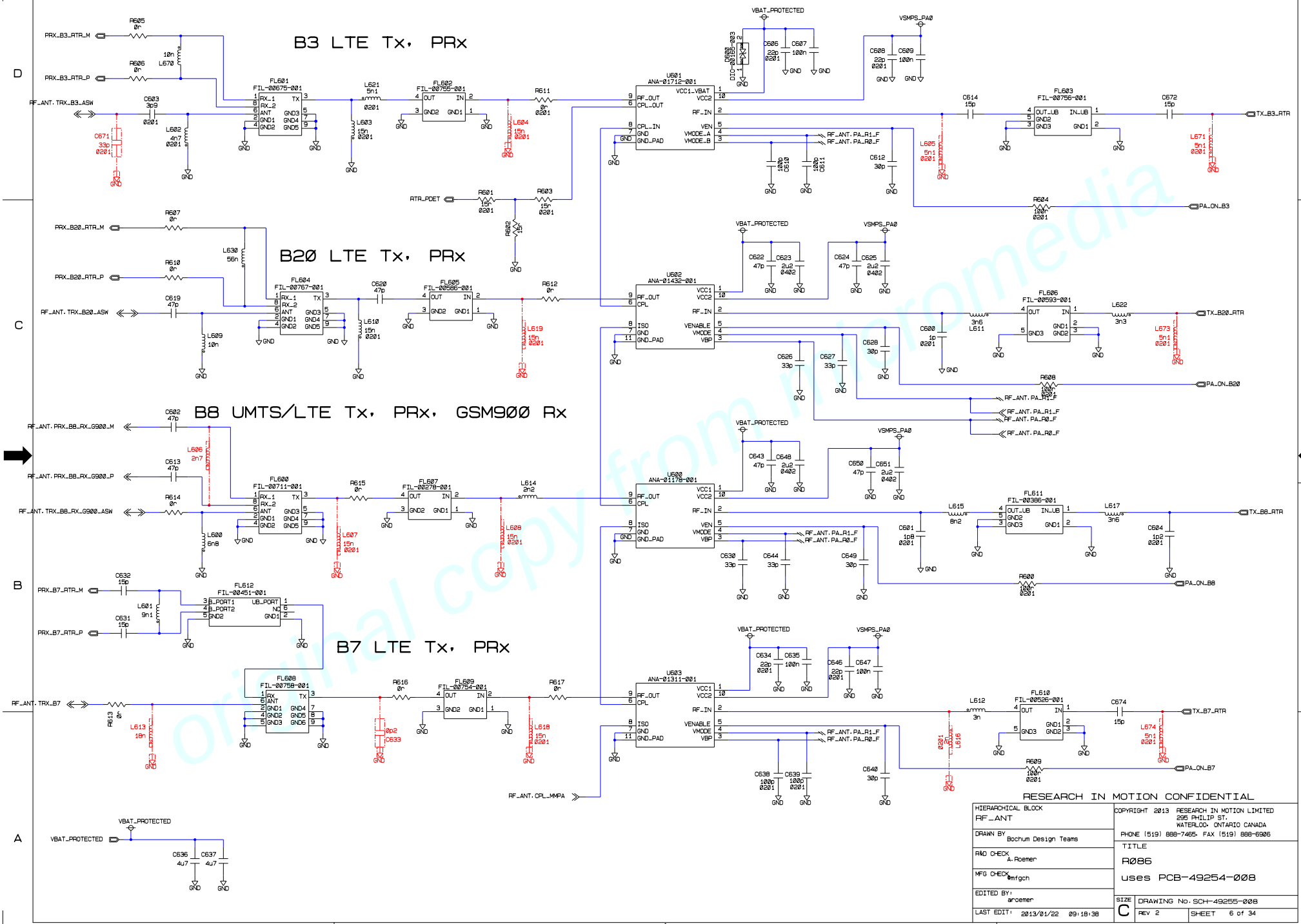
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DRAWN BY: Bochum Design Teams	TITLE
R&D CHECK: A.Roemer	R086
MFG CHECK: mfgch	uses PCB-49254-008
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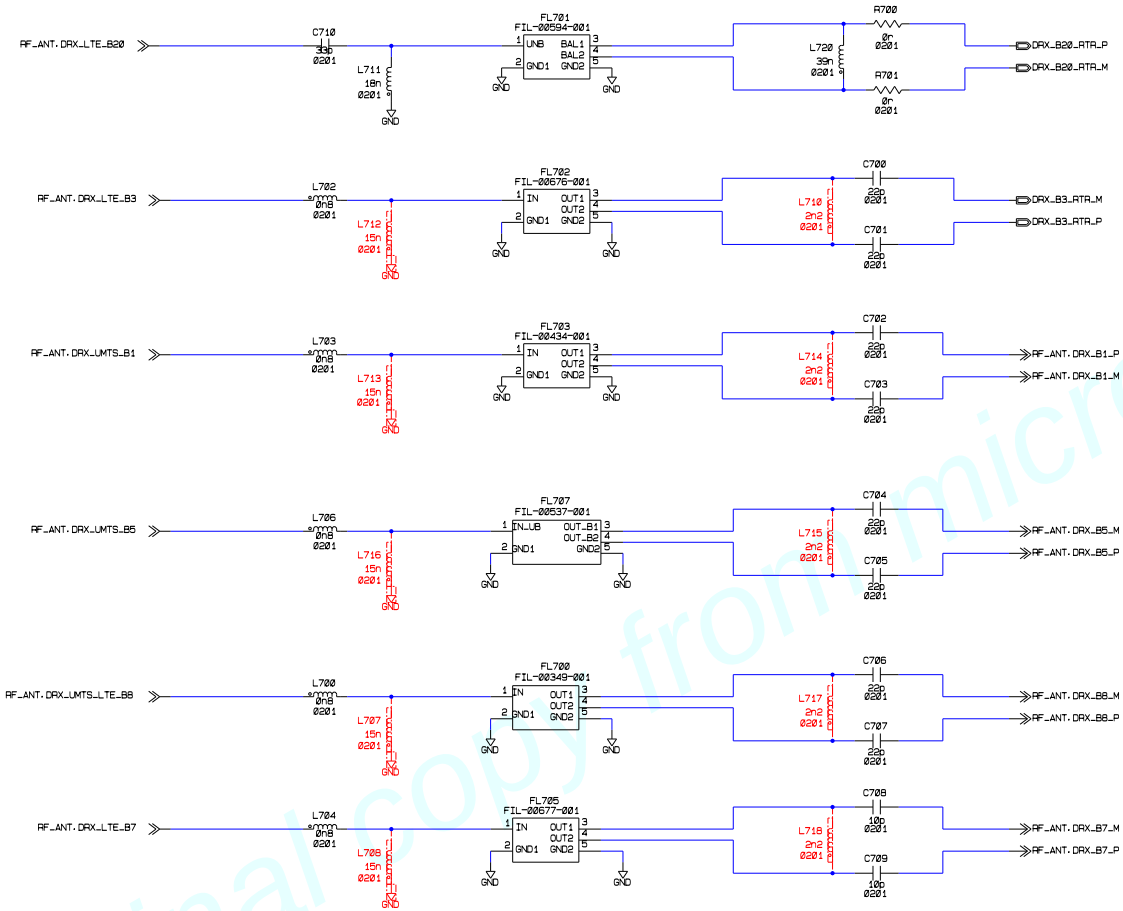
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DRAWN BY: Bochum Design Teams	TITLE: R086 uses PCB-49254-008
R&D CHECK: A. Roemer	
MFG CHECK: @mfgch	
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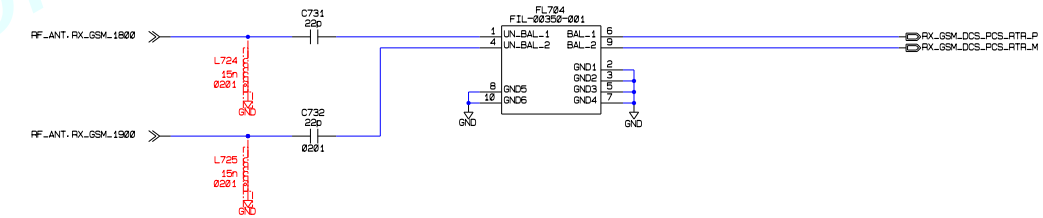


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Rx SAW FILTERS



Rx GSM1800/1900 FILTER



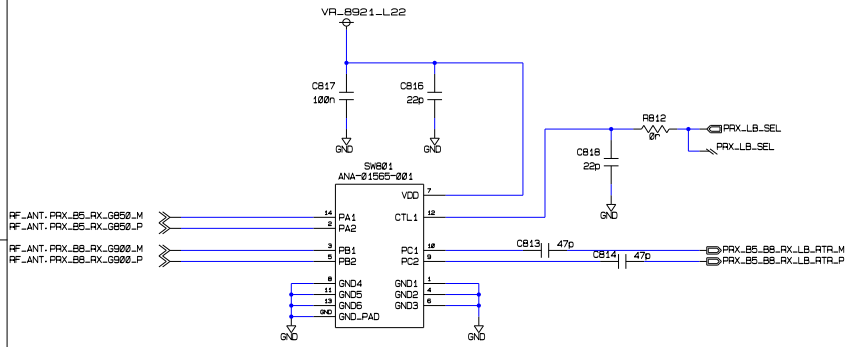
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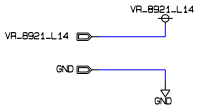
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DRAWN BY: Bochum Design Teams	295 PHILIP ST. WATERLOO, ONTARIO CANADA PHONE (519) 888-7465, FAX (519) 888-6906
R&D CHECK: A. Roemer	TITLE: R086 uses PCB-49254-008
MFG CHECK: @mfgch	
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LAST EDIT: 2013/01/22 08:32:16	REV 2 — SHEET 7 of 34

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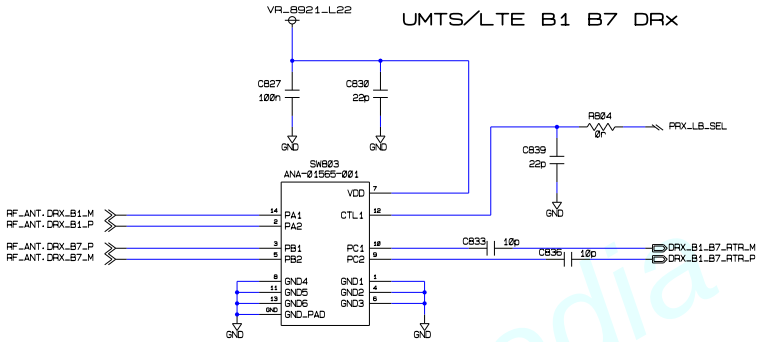
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UMTS/LTE B5 B8 PRx, G850/900 Rx

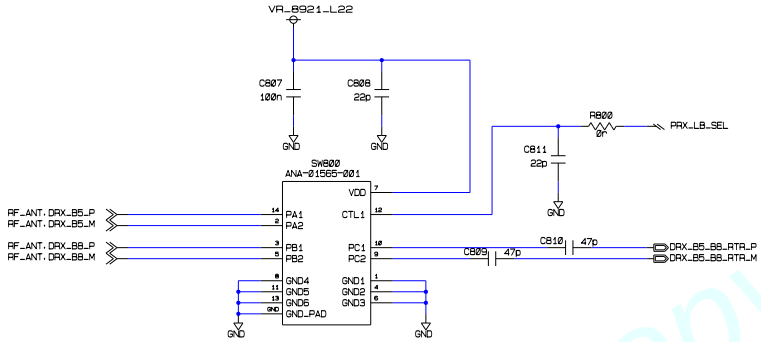




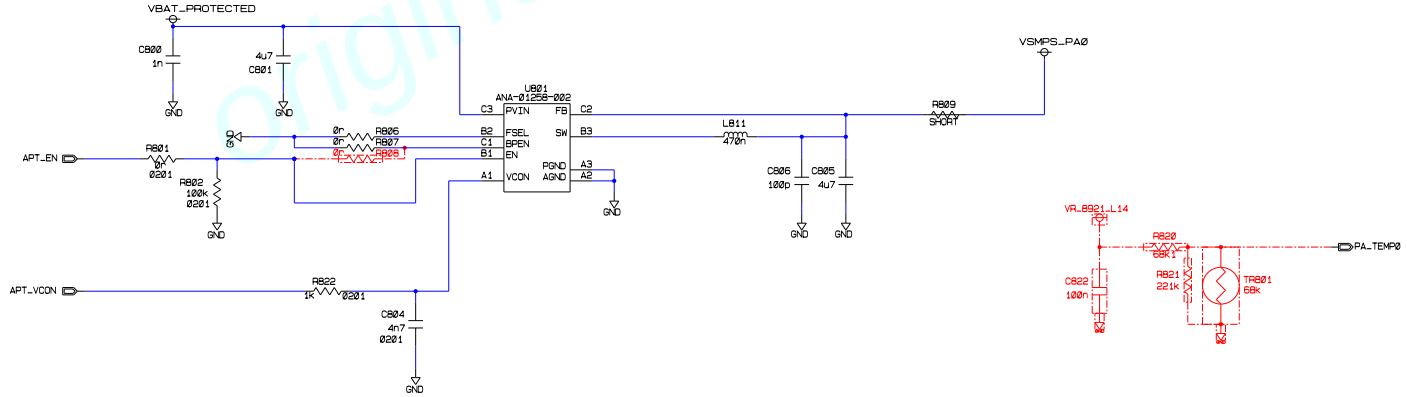
UMTS/LTE B1 B7 DRx



UMTS/LTE B5 B8 DRx



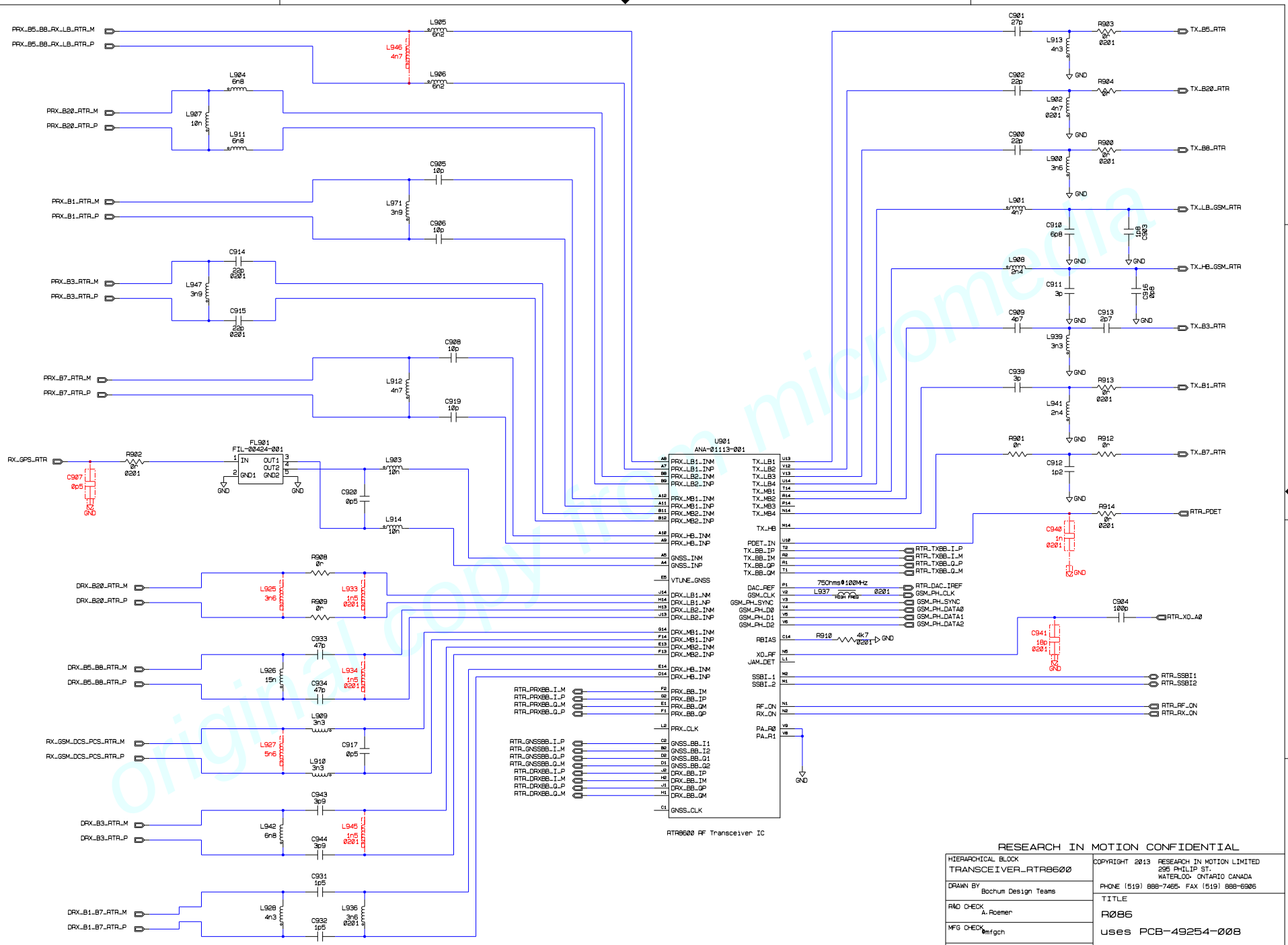
SMPS FOR ALL PA'S



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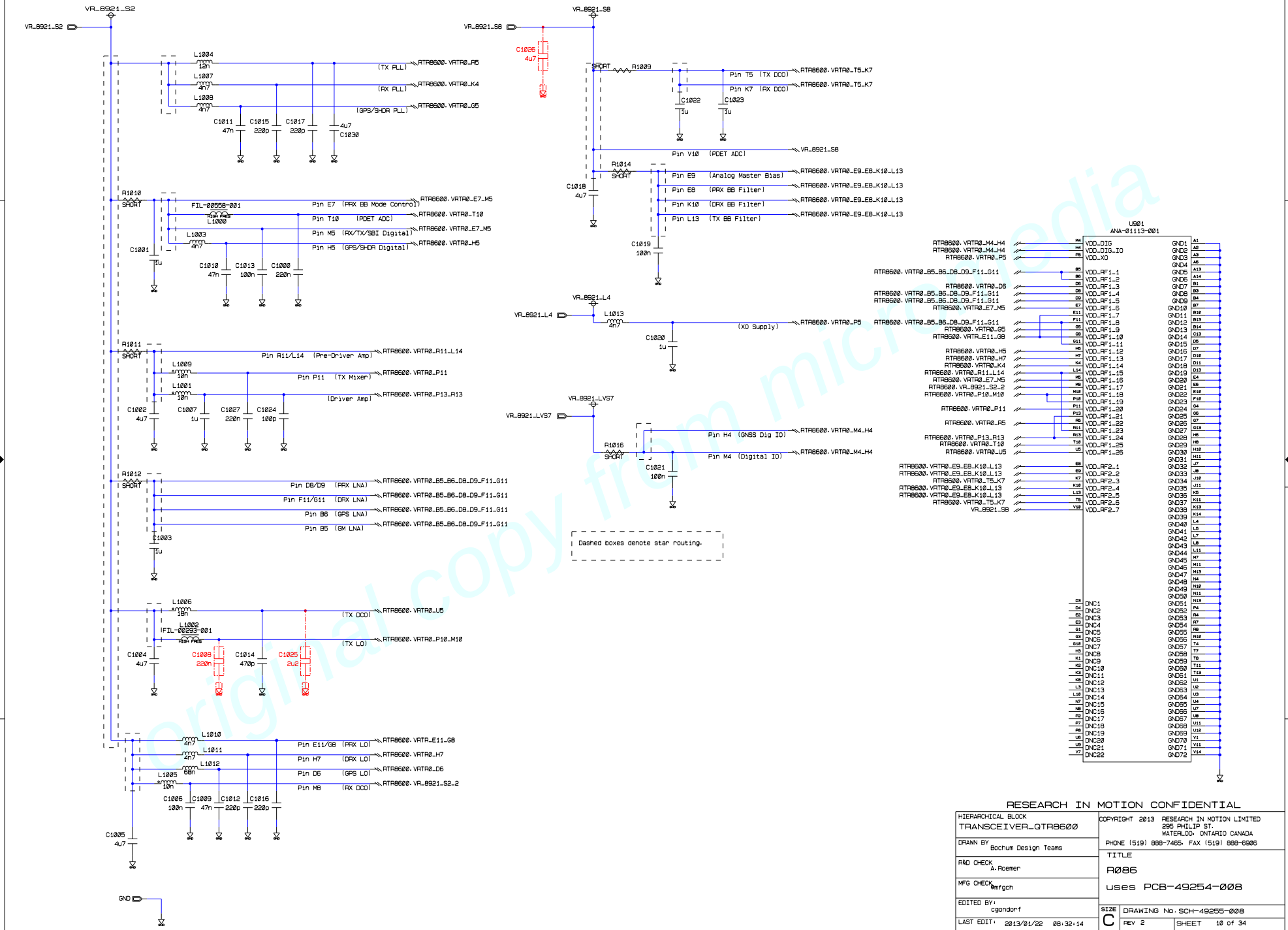
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R&D CHECK: A. Roemer	
MFG CHECK: @mfgch	
EDITED BY: hross	SIZE: C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 11:12:21	REV 2 — SHEET 9 of 34



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R&D CHECK: A. Roemer	R086
MFG CHECK: @mfgch	uses PCB-49254-008
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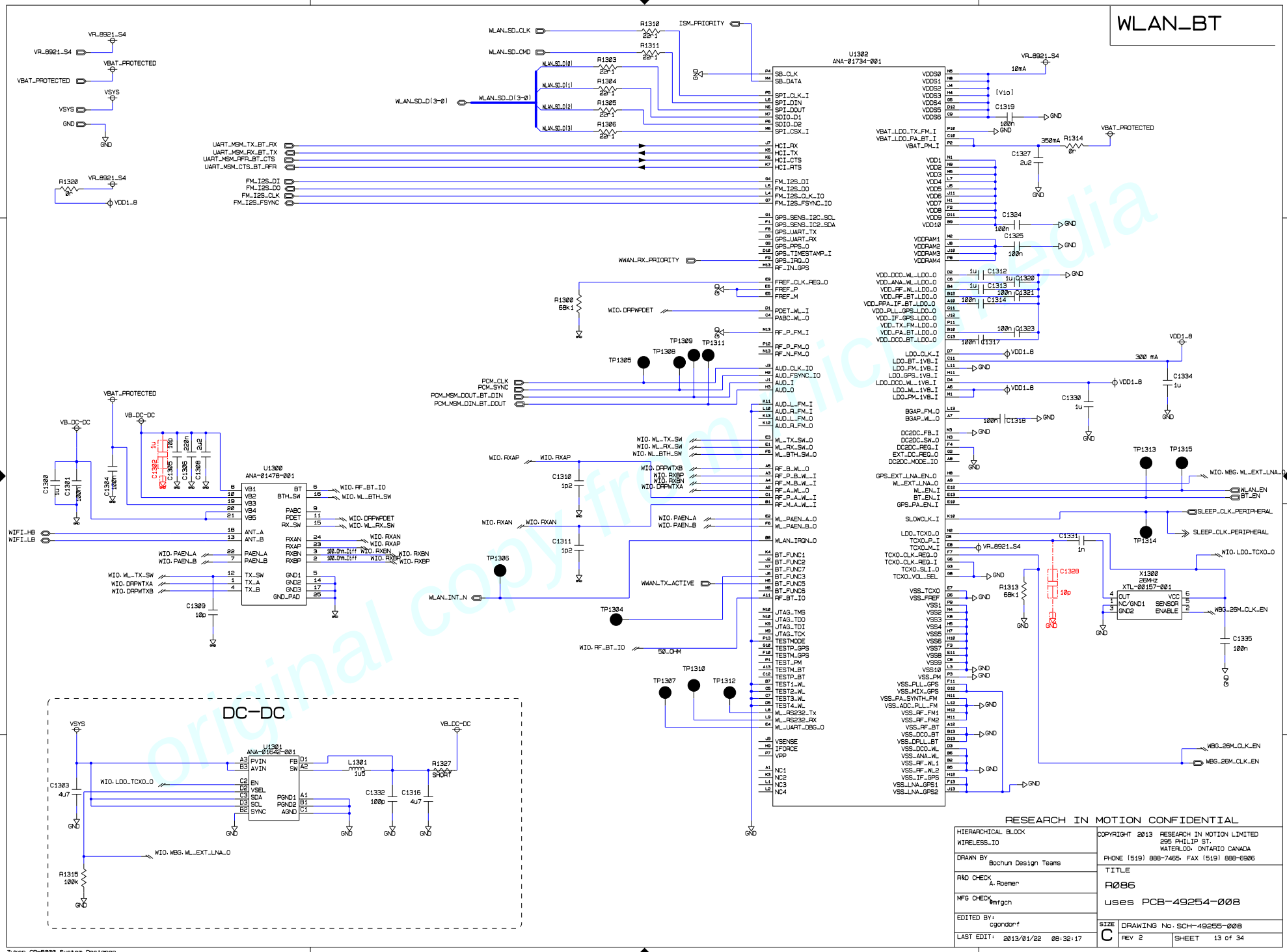
Zuken CR-5000 System Designer

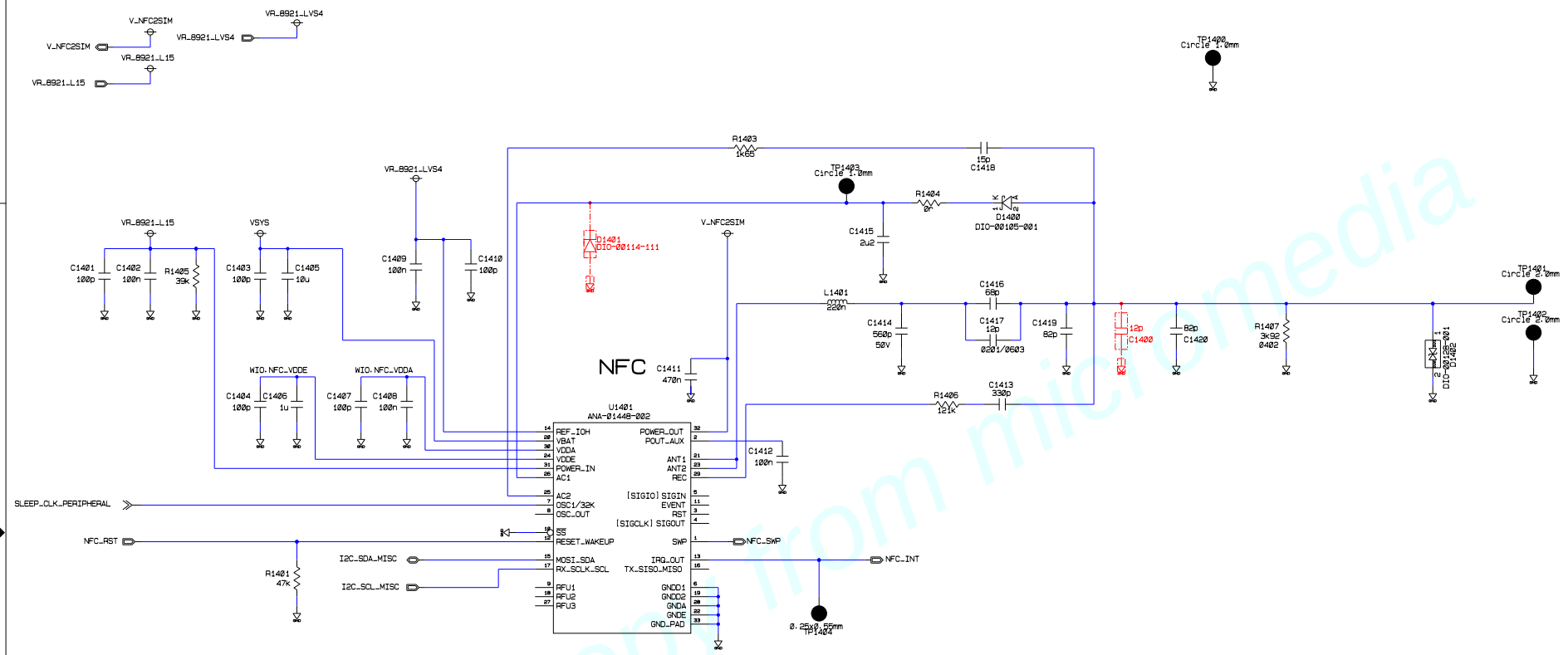
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MFG CHECK: @mfgch	
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LAST EDIT: 2012/02/24 13:14:14	REV 2; SHEET 12 of 34


WLAN_BT
DC-DC
U1302
ANA-01734-001
U1300
ANA-01478-001
U1301
ANA-01642-001
X1300
26MHz
XTL-00157-001
WLAN_SD_CLK
WLAN_SD_CMD
WLAN_SD_D(3-0)
ISM_PRIORITY
WWAN_RX_PRIORITY
WWAN_TX_ACTIVE
WLAN_INT_N
WIO.DRPWPDET
WIO.RXAP
WIO.RXAN
WIO.PAEN_A
WIO.PAEN_B
WIO.WL_TX_SW
WIO.DRPWTXA
WIO.DRPWTXB
WIO.RF_BT_IO
WIO.WBG.WL_EXT_LNA_O
WIO.LDO_TCXO_O
WLAN_EN
BT_EN
SLEEP_CLK_PERIPHERAL
WBG_26M_CLK_EN
UART_MSM_TX_BT_RX
UART_MSM_RX_BT_TX
UART_MSM_RFR_BT_CTS
UART_MSM_CTS_BT_RFR
FM_I2S_DI
FM_I2S_DO
FM_I2S_CLK
FM_I2S_FSYNC
PCM_CLK
PCM_SYNC
PCM_MSM_DOUT_BT_DIN
PCM_MSM_DIN_BT_DOUT
WIFI_HB
WIFI_LB
VR_8921_S4
VBAT_PROTECTED
VSYS
GND
VDD1_8
VB_DC_DC
50_OHM
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PHONE (519) 888-7465, FAX (519) 888-6906
HIERARCHICAL BLOCK
WIRELESS_IO
DRAWN BY
Bochum Design Teams
R&D CHECK
A. Roemer
MFG CHECK
@mfgch
EDITED BY:
cgondorf
LAST EDIT:
2013/01/22 08:32:17
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R086
uses PCB-49254-008
SIZE
C
DRAWING No. SCH-49255-008
REV 2
SHEET 13 of 34
Zuken CR-5000 System Designer

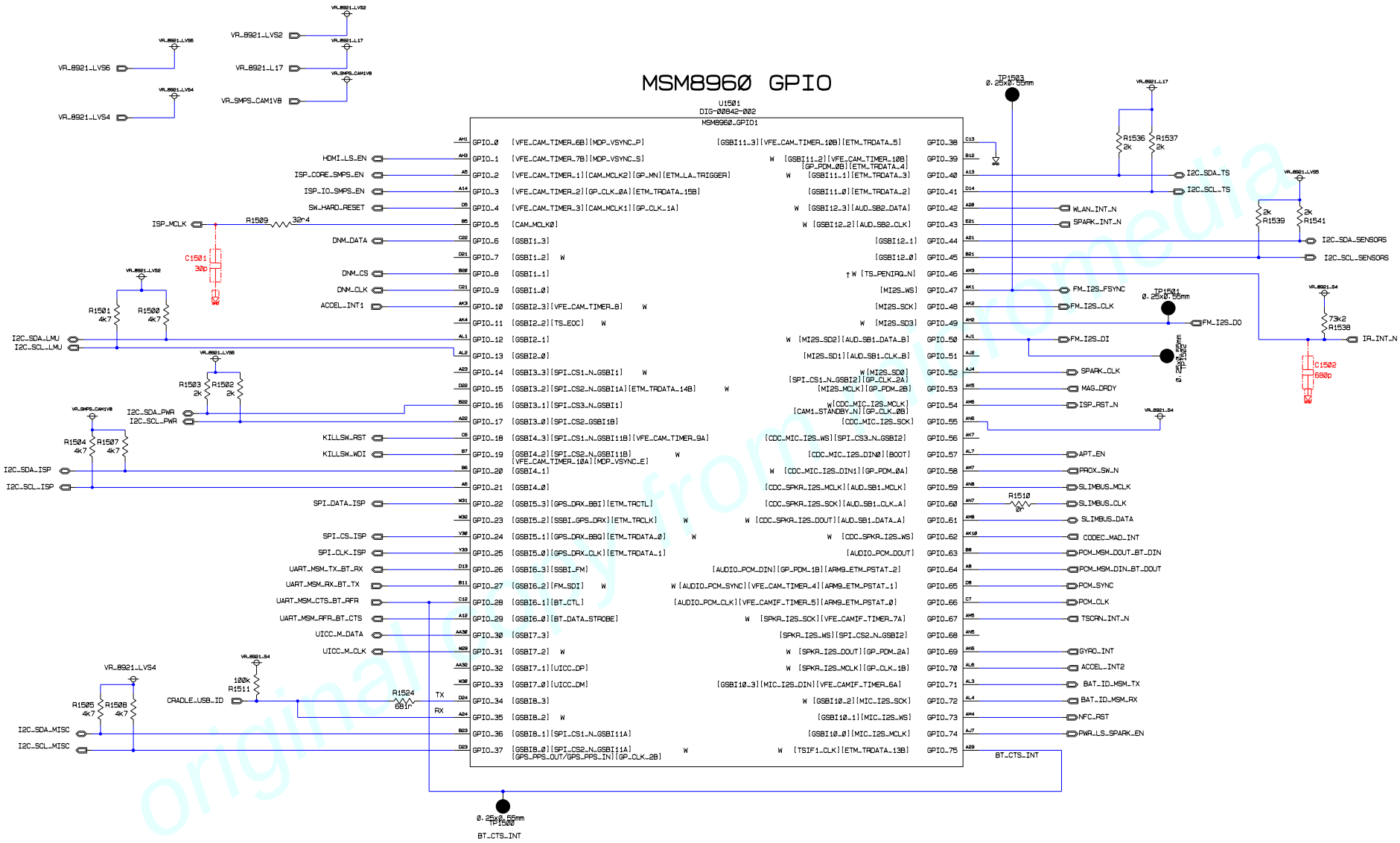


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R&D CHECK: A. Roemer	R086
MFG CHECK: @mfgch	uses PCB-49254-008
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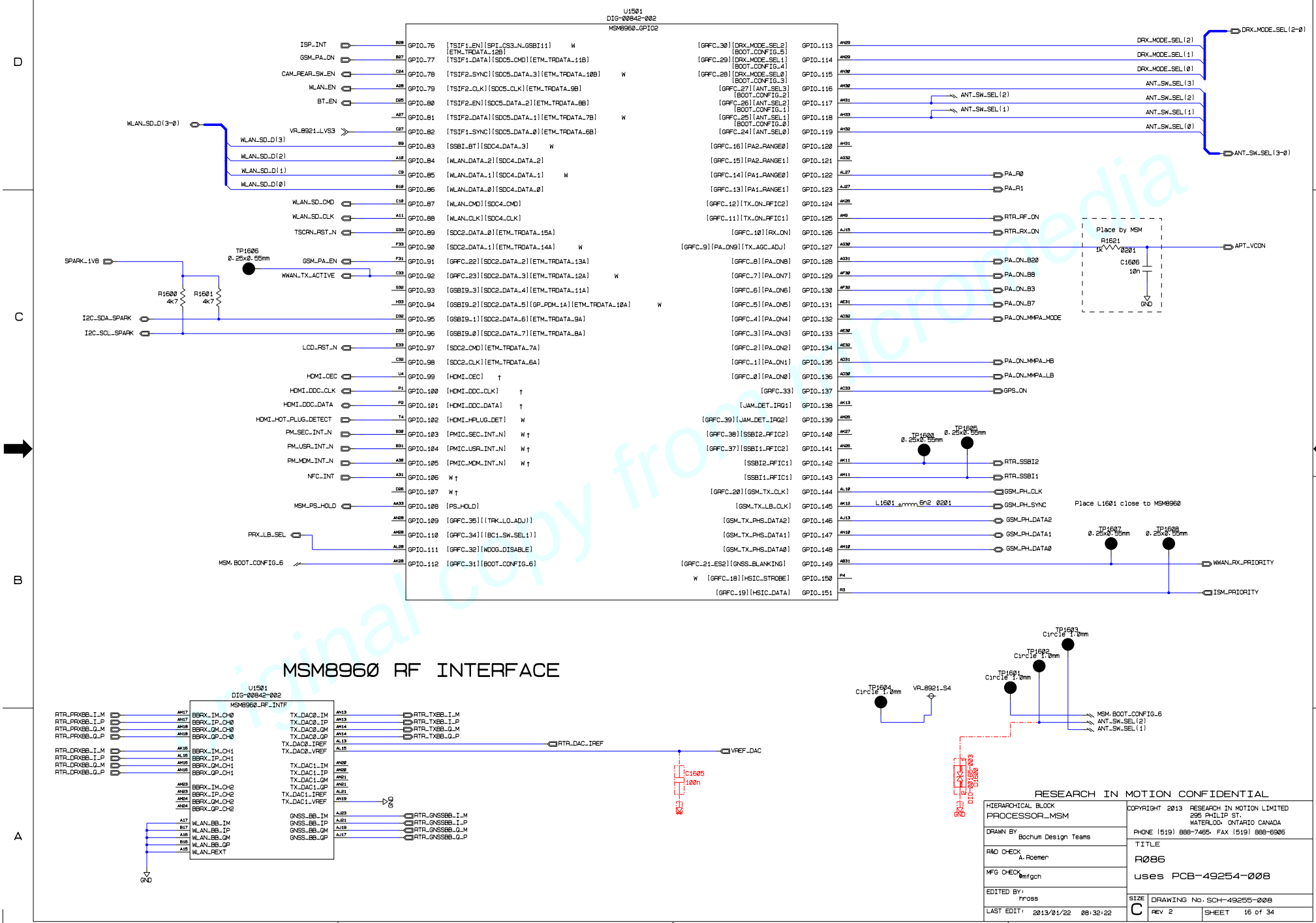
MSM8960 GPIO



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R&D CHECK A.Roemer	
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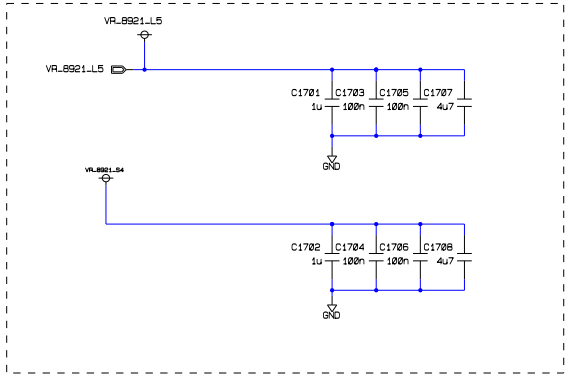
Zuken CR-5000 System Designer
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MSM8960 MEMORY INTERFACE

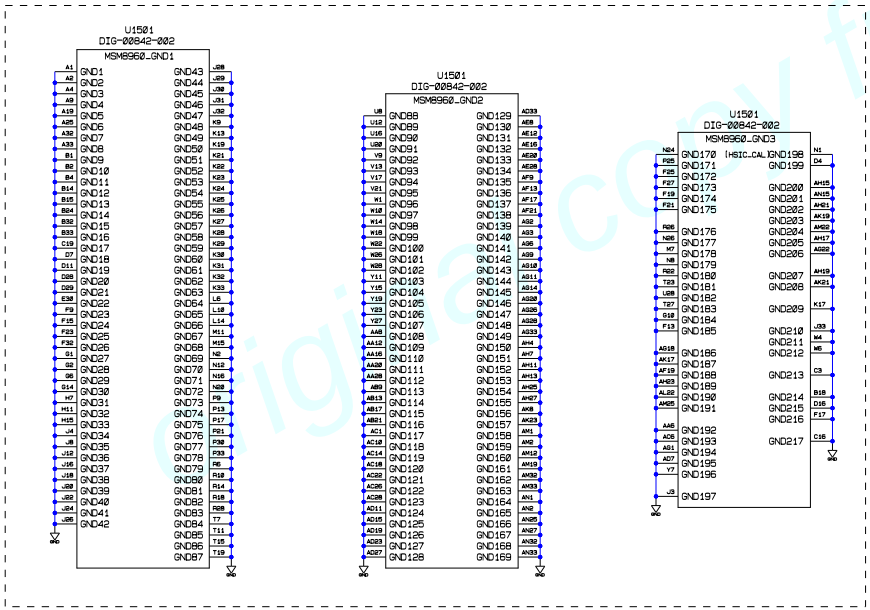
eMMC Power

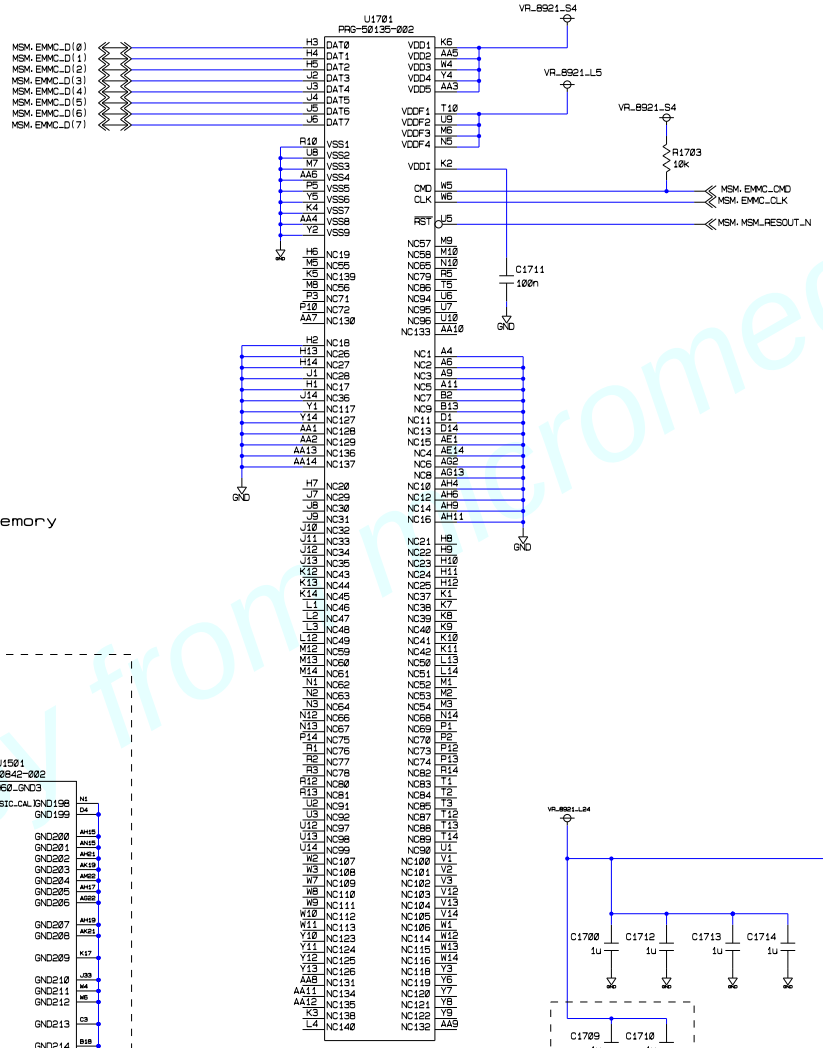


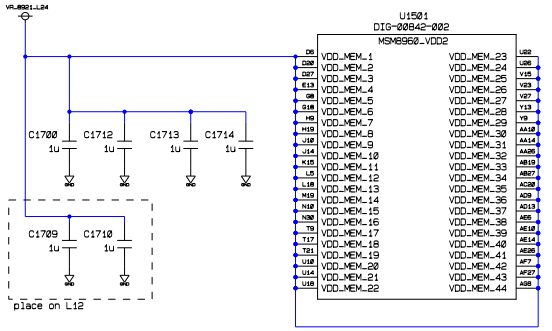
POP LPDDR2 Memory



MSM8960 GND



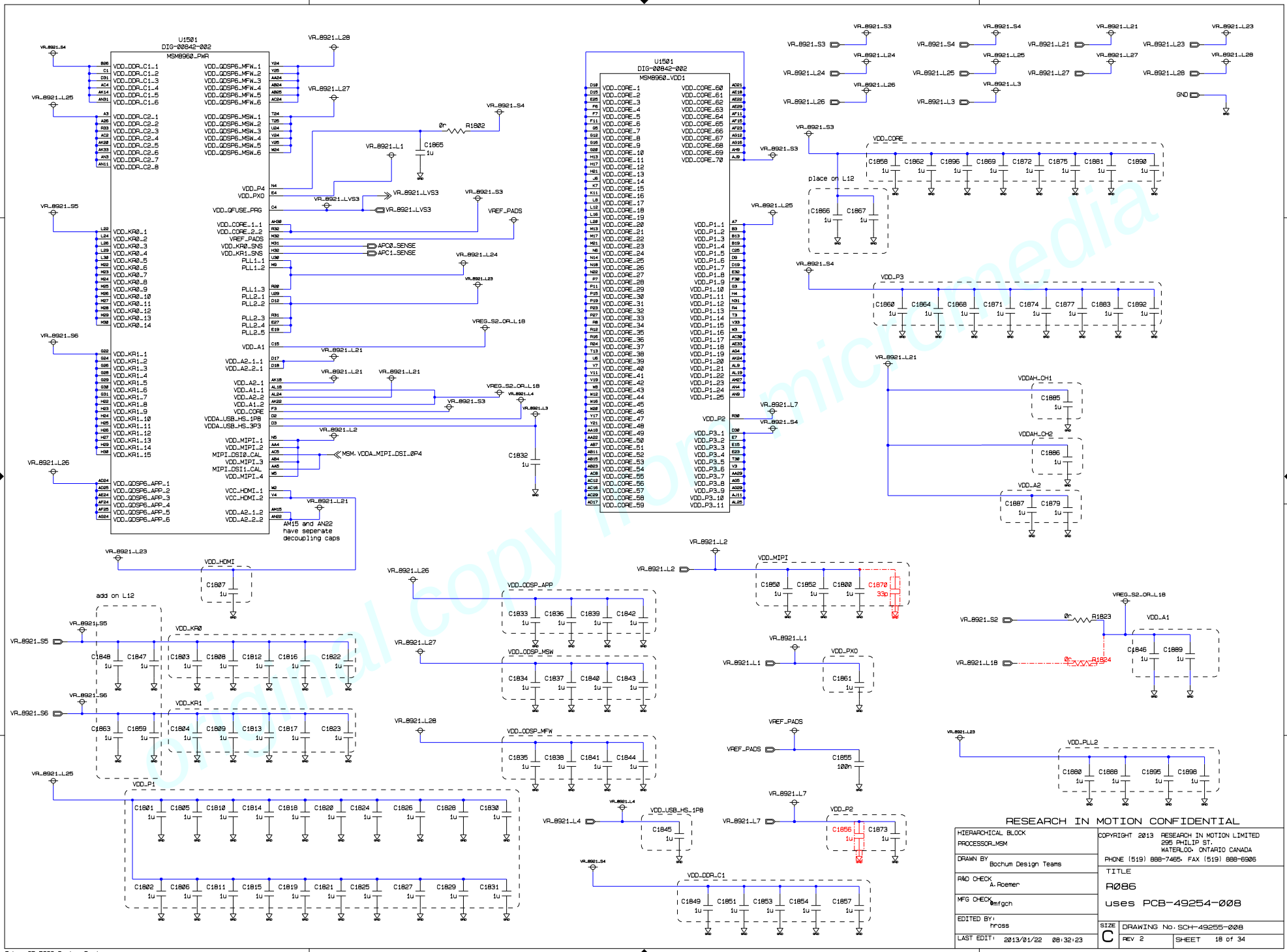




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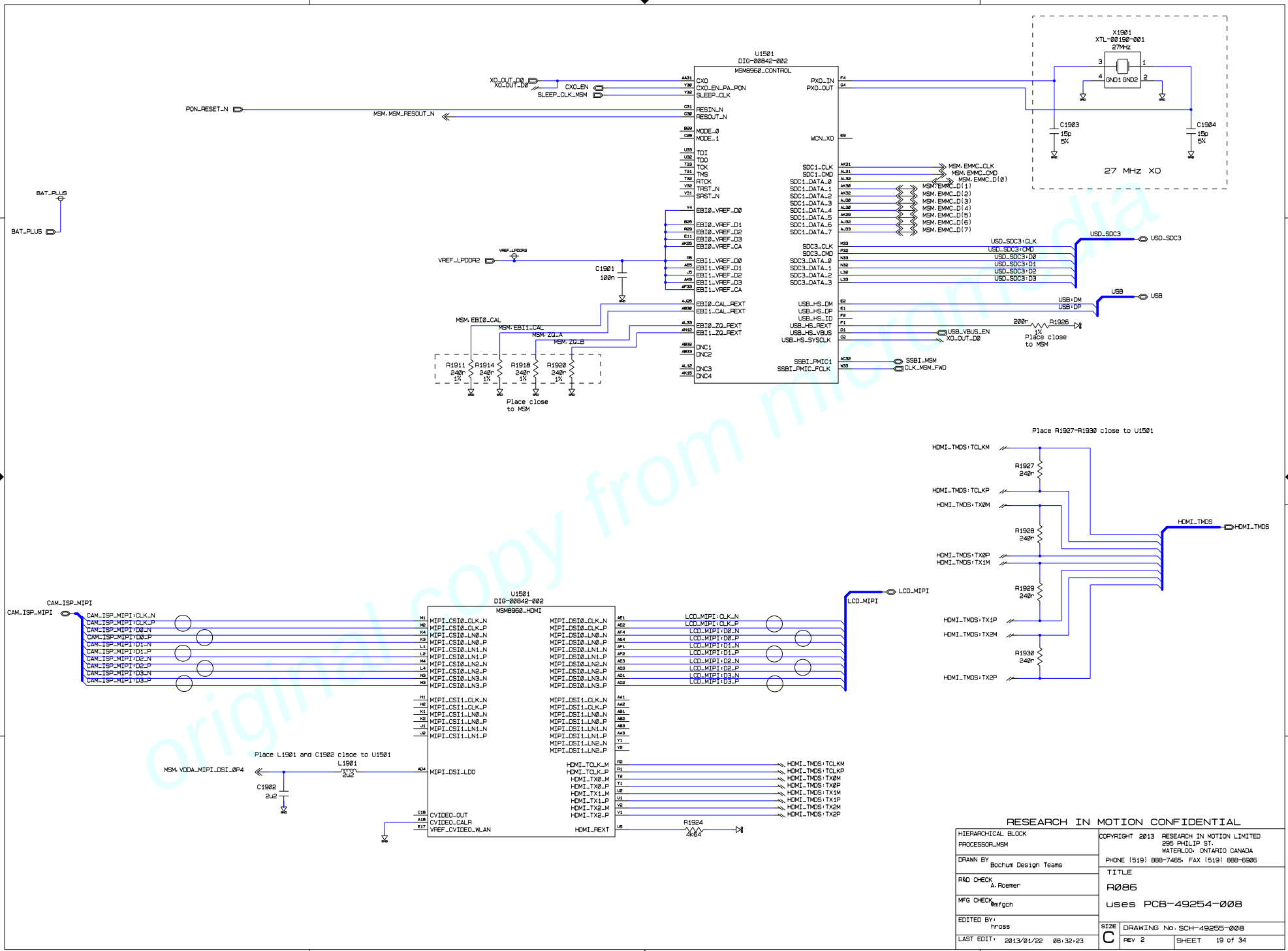
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DRAWN BY Bochum Design Teams	TITLE R086 uses PCB-49254-008
R&D CHECK A. Roemer	
MFG CHECK @mfgch	
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LAST EDIT: 2013/01/22 08:32:22	REV 2 — SHEET 17 of 34



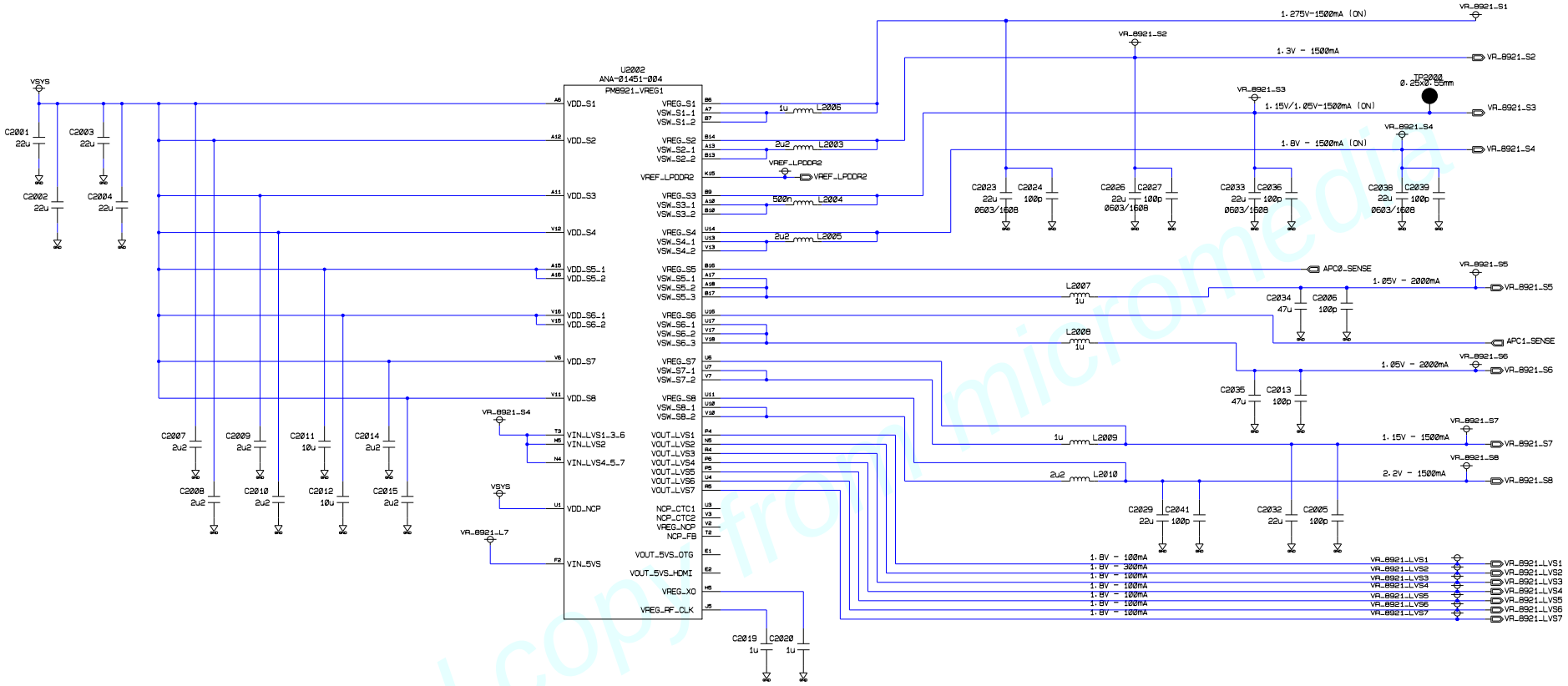
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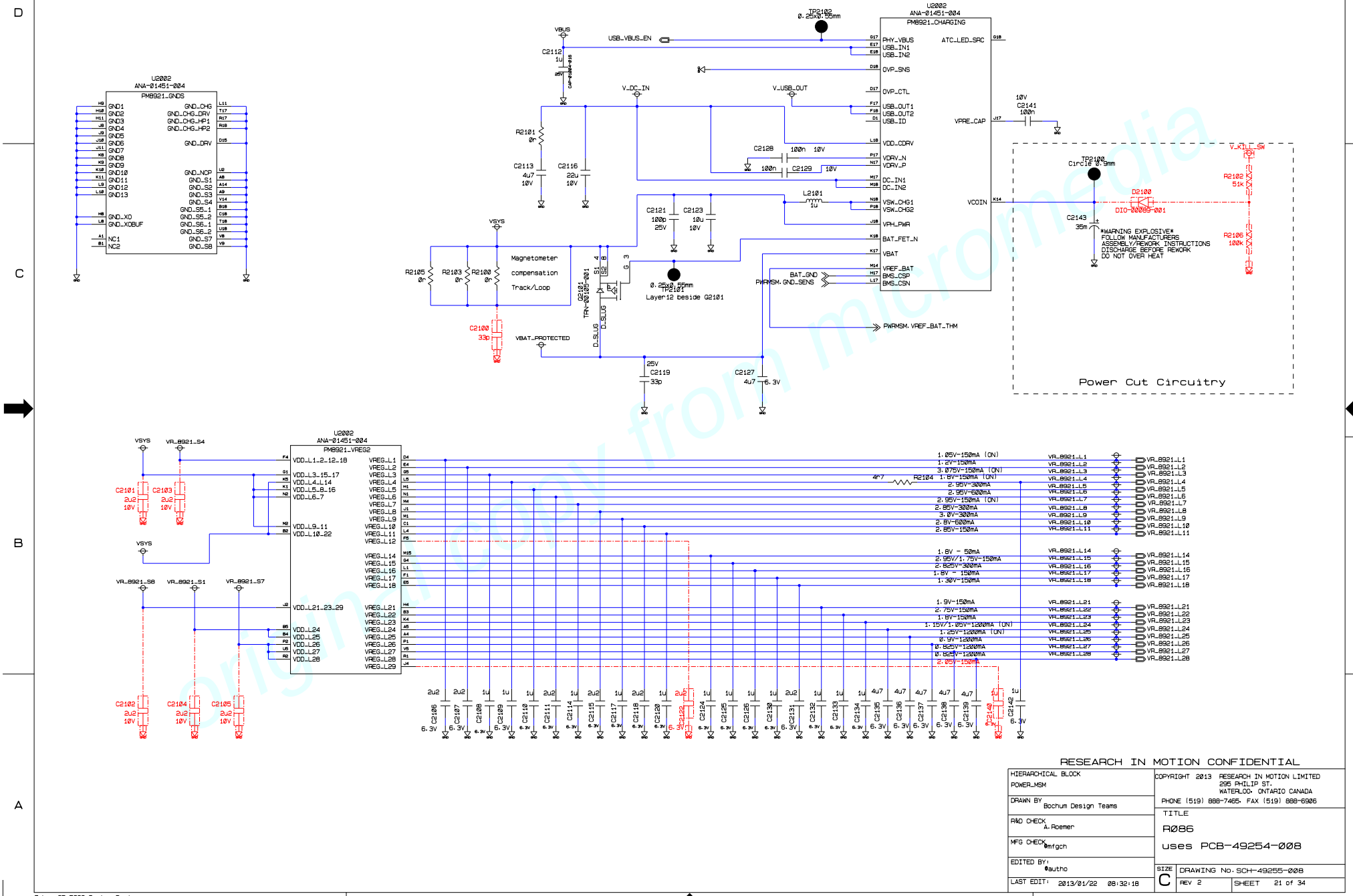
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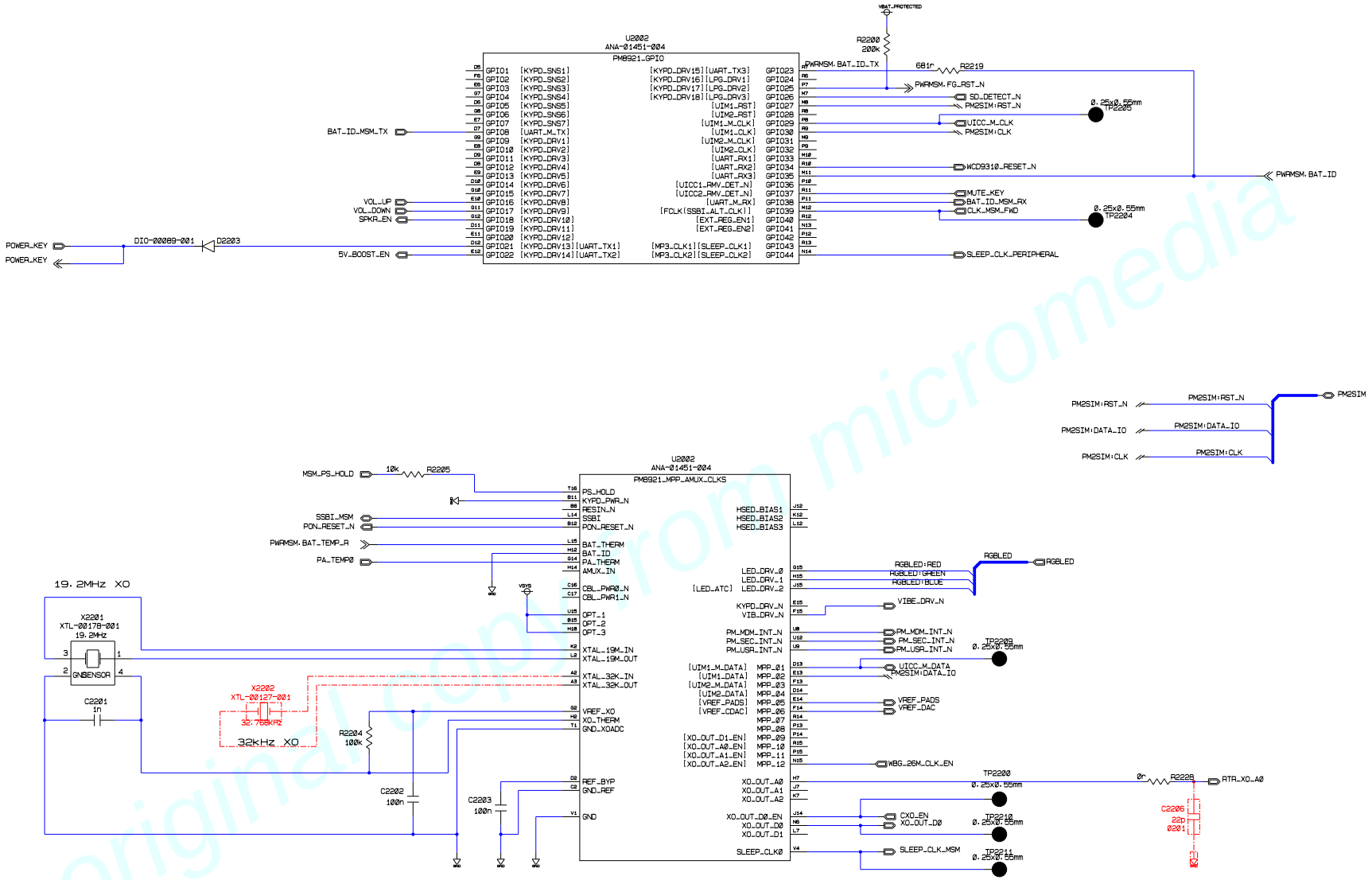
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DRAWN BY: Bochum Design Teams	TITLE
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MFG CHECK: @mfgch	uses PCB-49254-008
EDITED BY: @autho	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2012/03/08 16:08:43	REV 2 — SHEET 20 of 34



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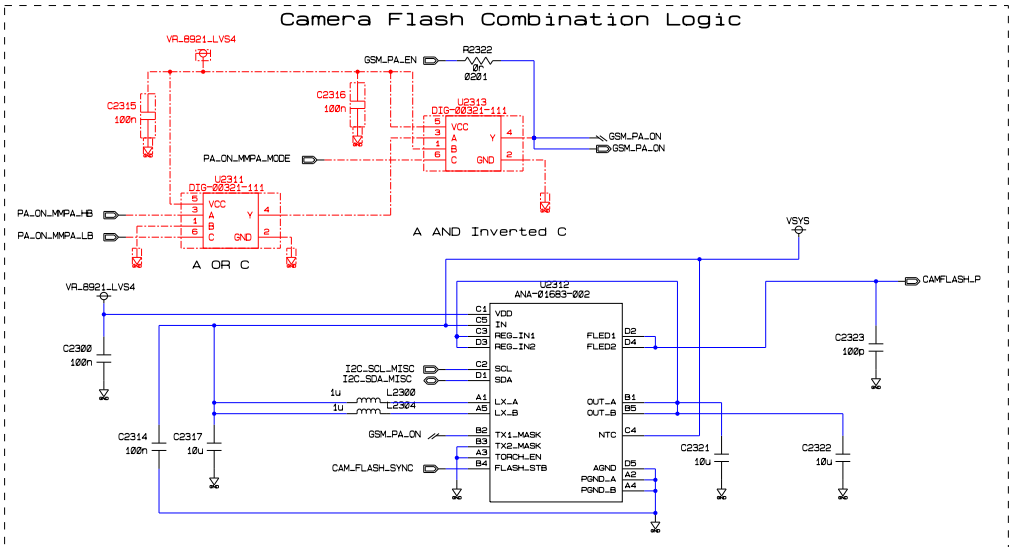
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DRAWN BY: Bochum Design Teams	TITLE
R&D CHECK: A. Roemer	R086
MFG CHECK: @mfgch	uses PCB-49254-008
EDITED BY: @autho	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:18	REV 2 — SHEET 21 of 34

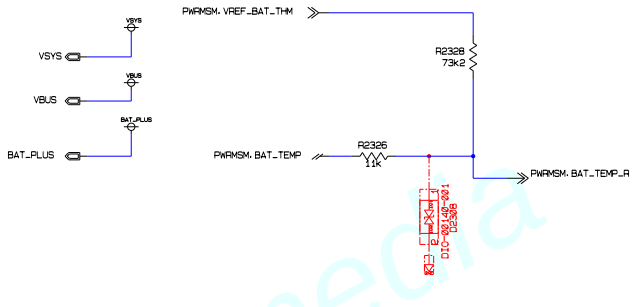


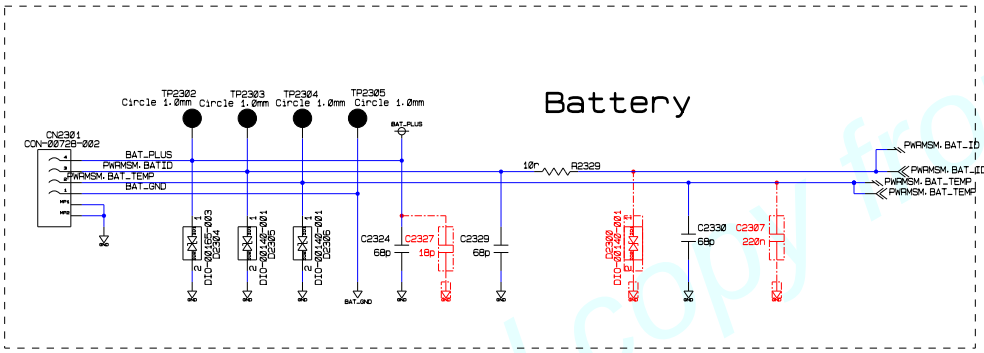
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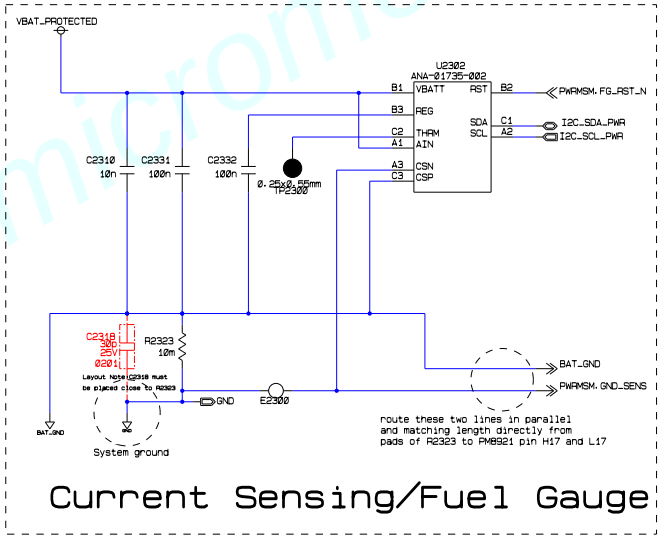
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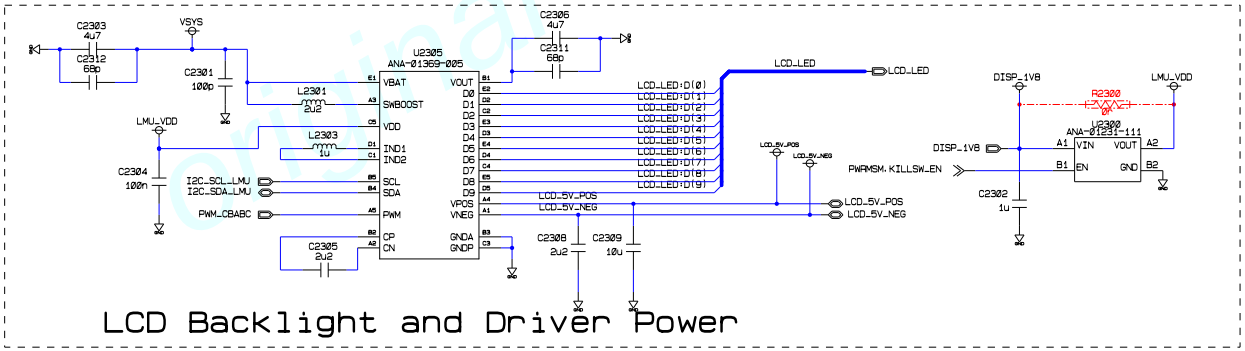
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DRAWN BY: Bochum Design Teams	TITLE
R&D CHECK: A. Roemer	R086
MFG CHECK: @mfgch	uses PCB-49254-008
EDITED BY: hross	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:18	REV 2 — SHEET 22 of 34











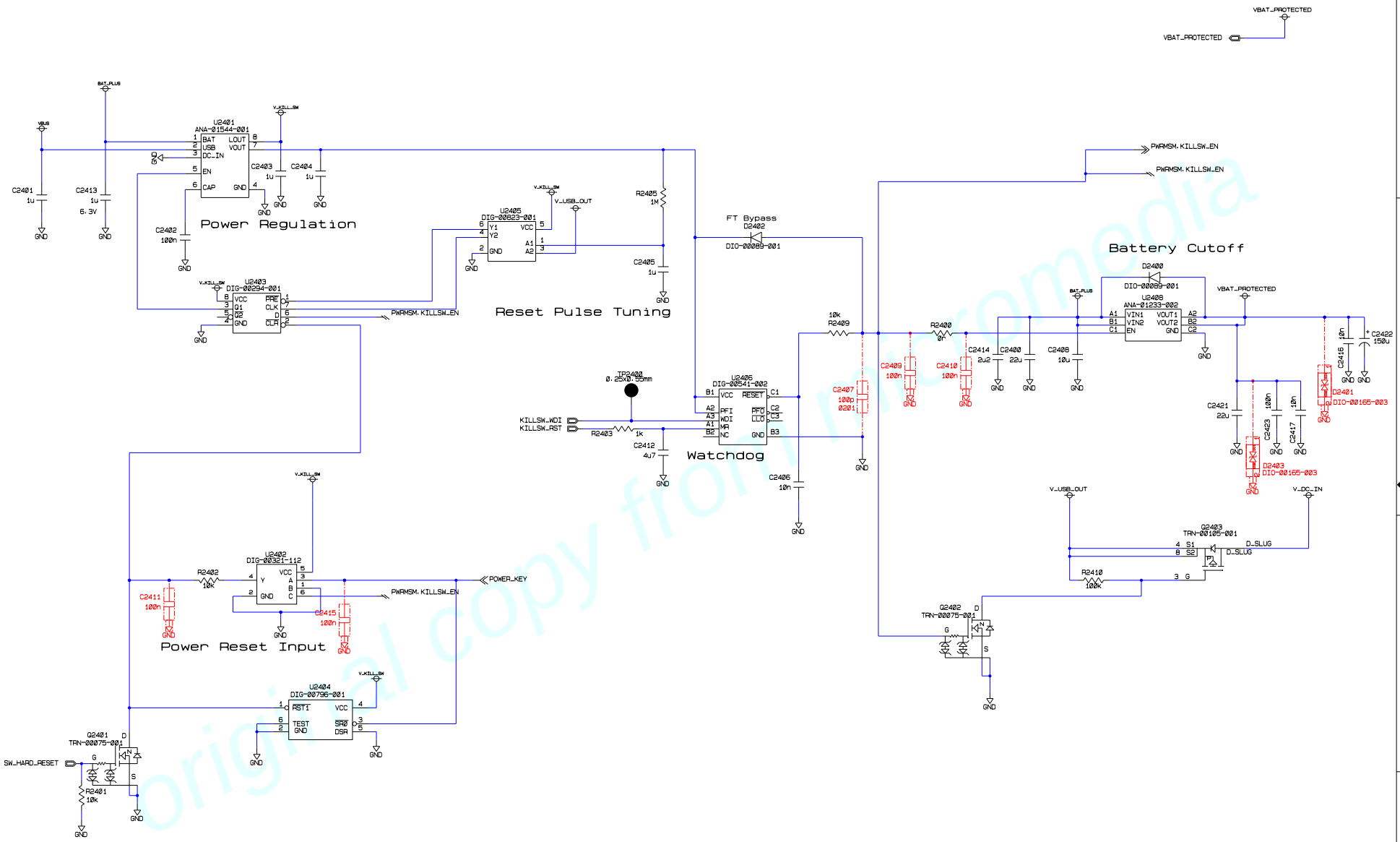
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DRAWN BY: Bochum Design Teams	TITLE
R&D CHECK: A. Roemer	R086
MFG CHECK: @mfgch	uses PCB-49254-008
EDITED BY: @autho	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:19	REV 2 — SHEET 23 of 34

Zuken CR-5000 System Designer

Watchdog circuit

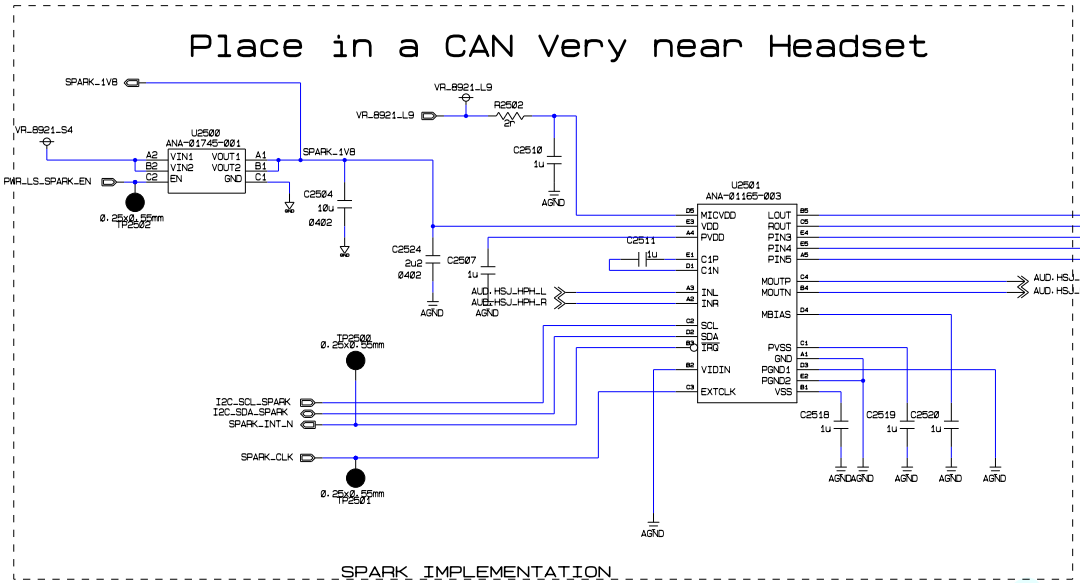


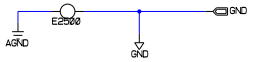
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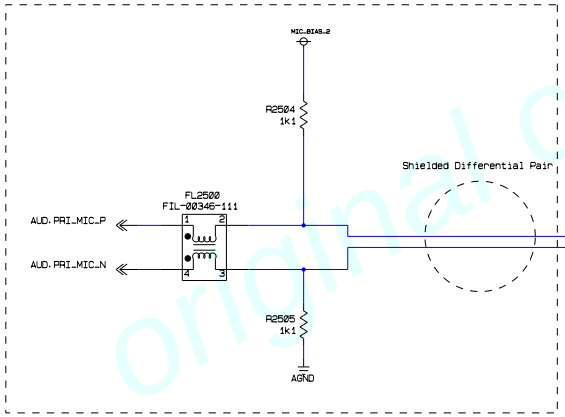
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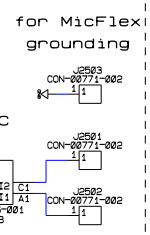
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DRAWN BY: Bochum Design Teams	PHONE (519) 888-7465, FAX (519) 888-6906
R&D CHECK: A. Roemer	TITLE: R086 uses PCB-49254-008
MFG CHECK: @mfgch	
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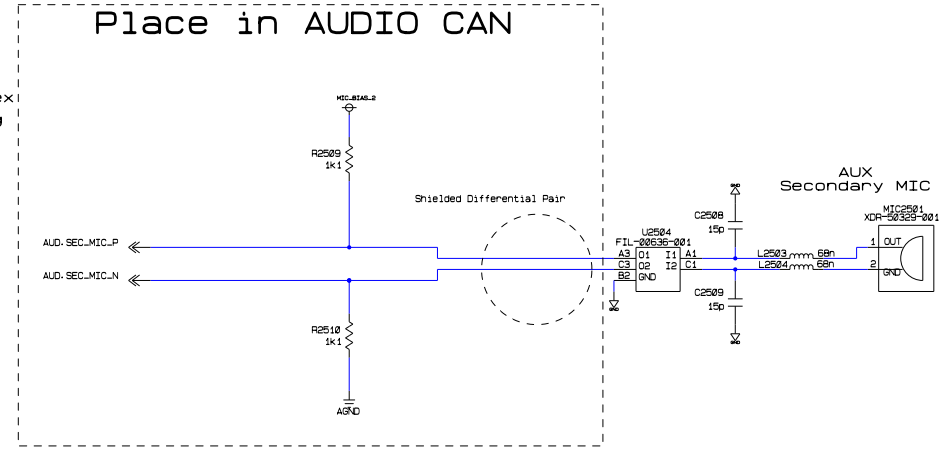
Zuken CR-5000 System Designer







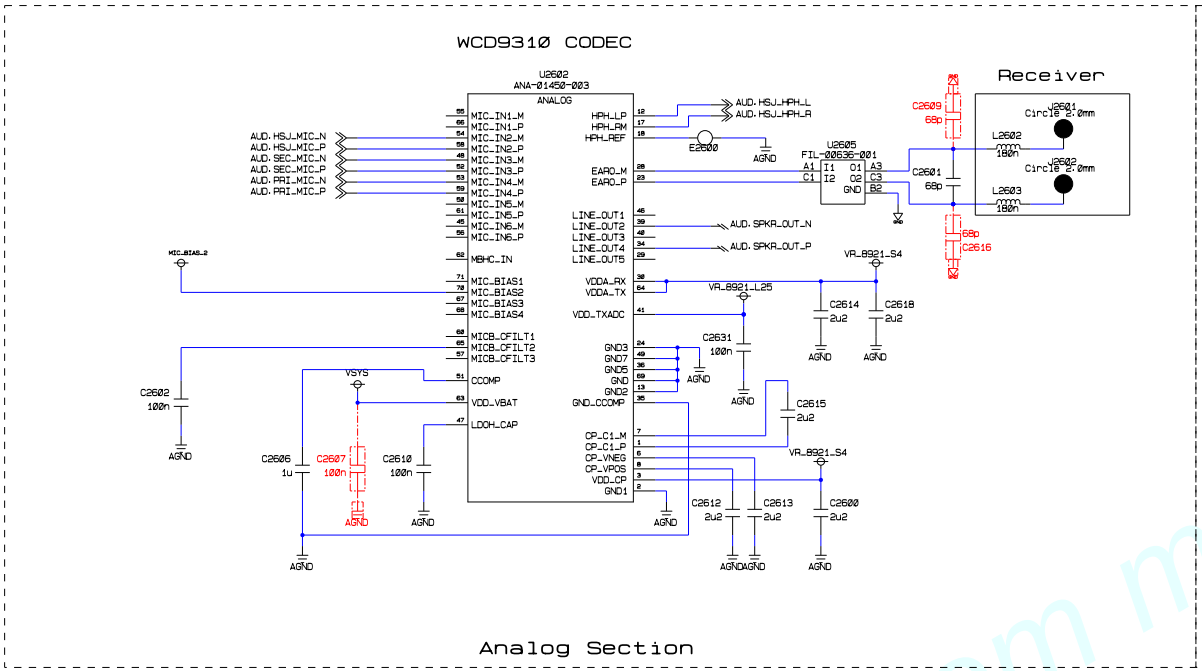


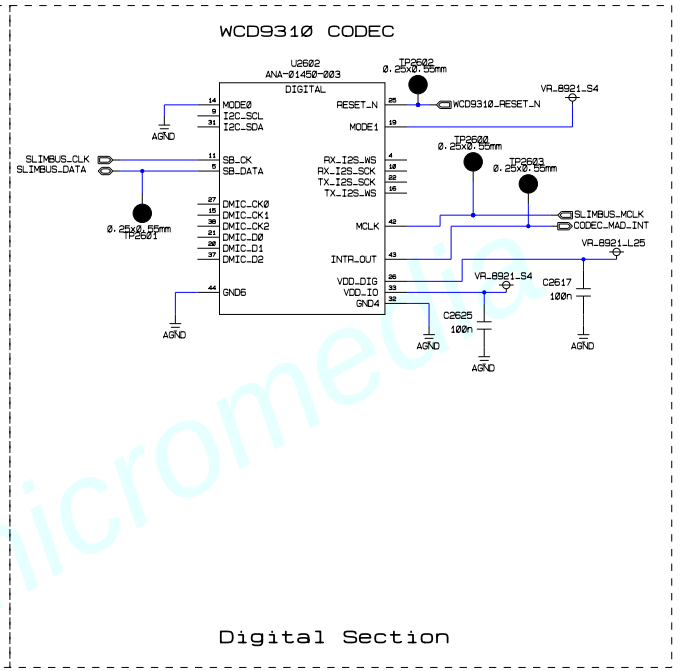


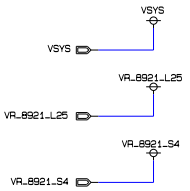
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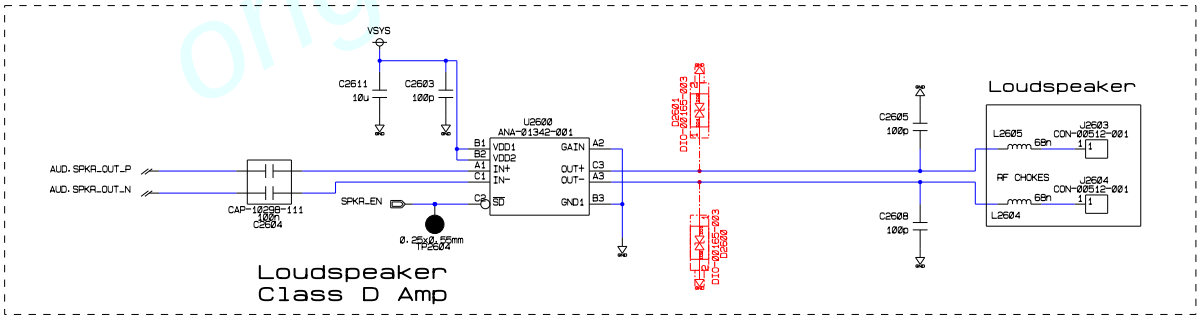
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DRAWN BY: Bochum Design Teams	TITLE
R&D CHECK: A. Roemer	R086
MFG CHECK: @mfgch	uses PCB-49254-008
EDITED BY: hross	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:21	REV 2 — SHEET 25 of 34









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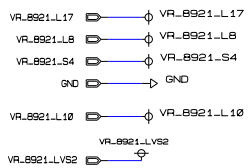
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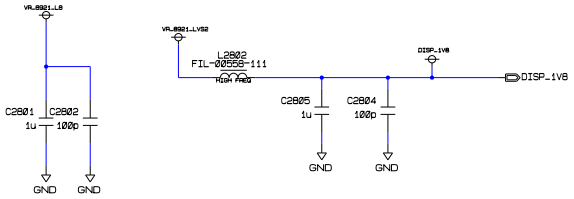
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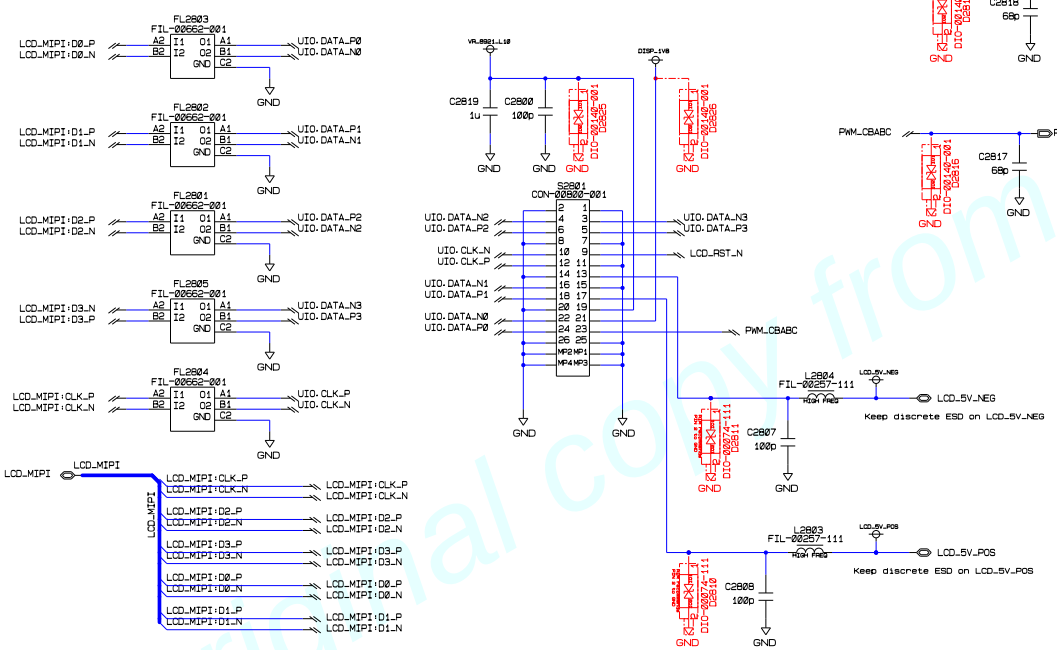
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DRAWN BY Bochum Design Teams	TITLE R086 uses PCB-49254-008
R&D CHECK A.Roemer	
MFG CHECK @mfgch	
EDITED BY: helkady	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:21	REV 2 — SHEET 27 of 34

DISPLAY AND TOUCHSCREEN

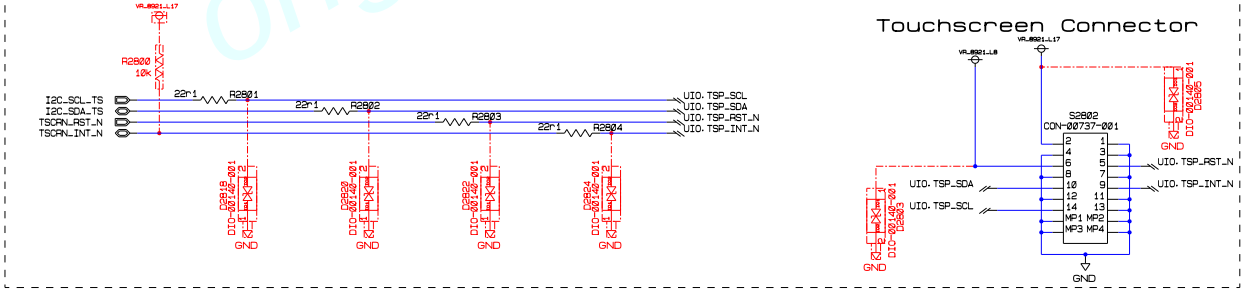


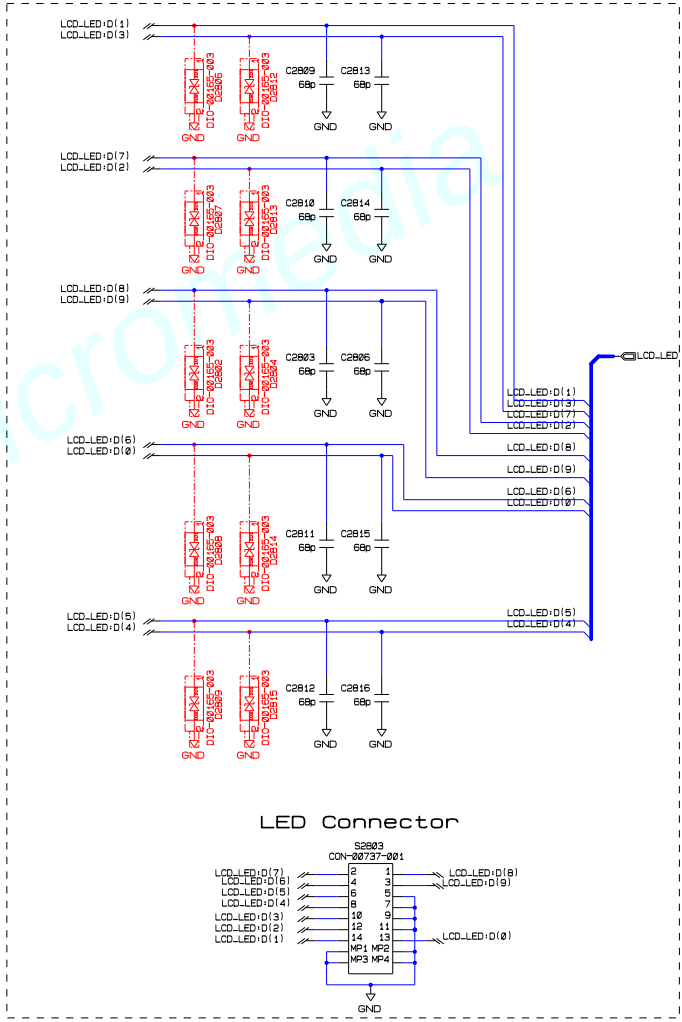


LCD Connector



Touchscreen Connector





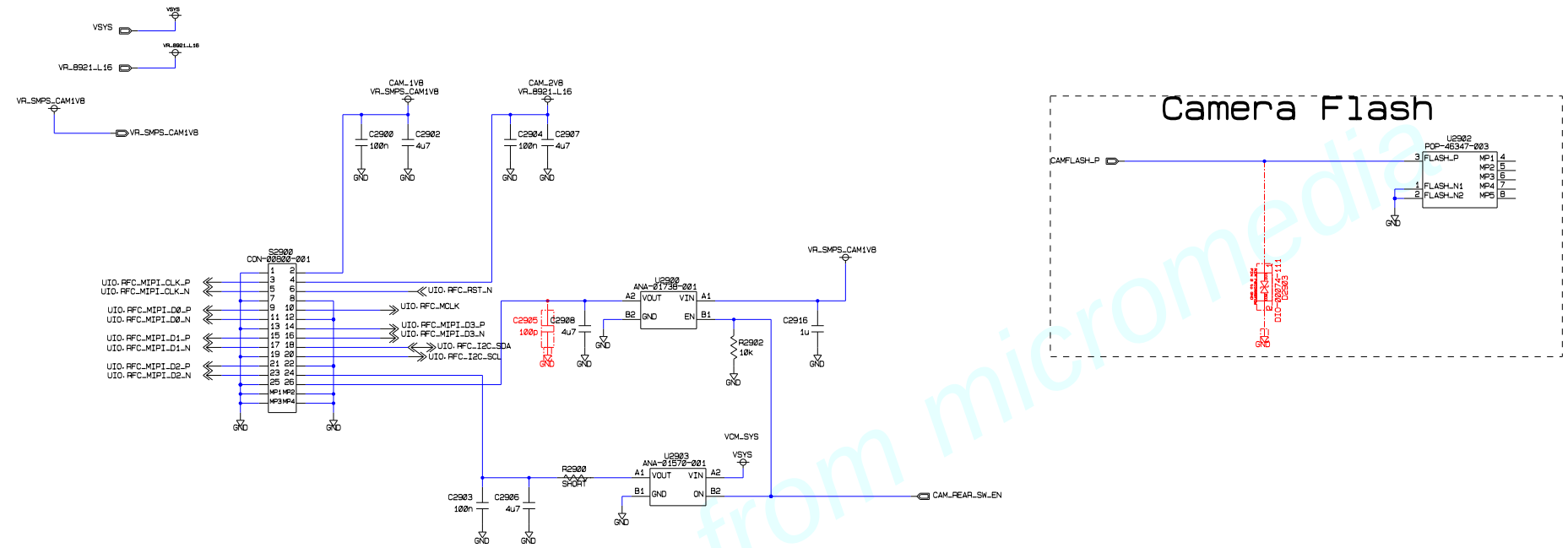
LED Connector

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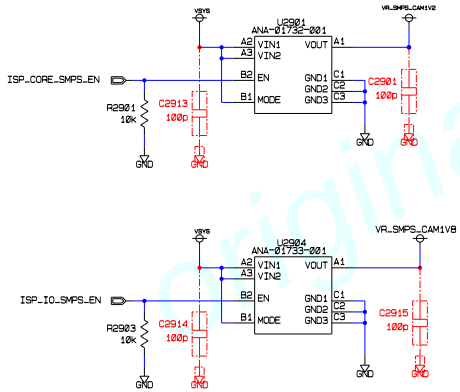
HIERARCHICAL BLOCK: USER_IO	COPYRIGHT 2013 RESEARCH IN MOTION LIMITED 295 PHILIP ST. WATERLOO, ONTARIO CANADA PHONE (519) 888-7465, FAX (519) 888-6906
DRAWN BY: Bochum Design Teams	TITLE: R086 uses PCB-49254-008
R&D CHECK: A. Roemer	
MFG CHECK: mfgch	
EDITED BY: hross	SIZE: C — DRAWING No. SCH-49255-008
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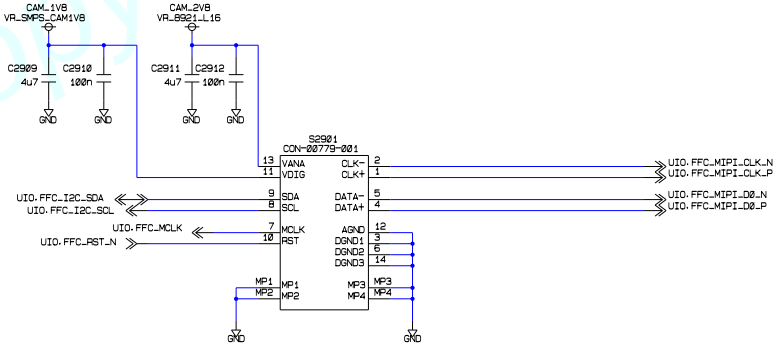
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Cameras



Camera Flash



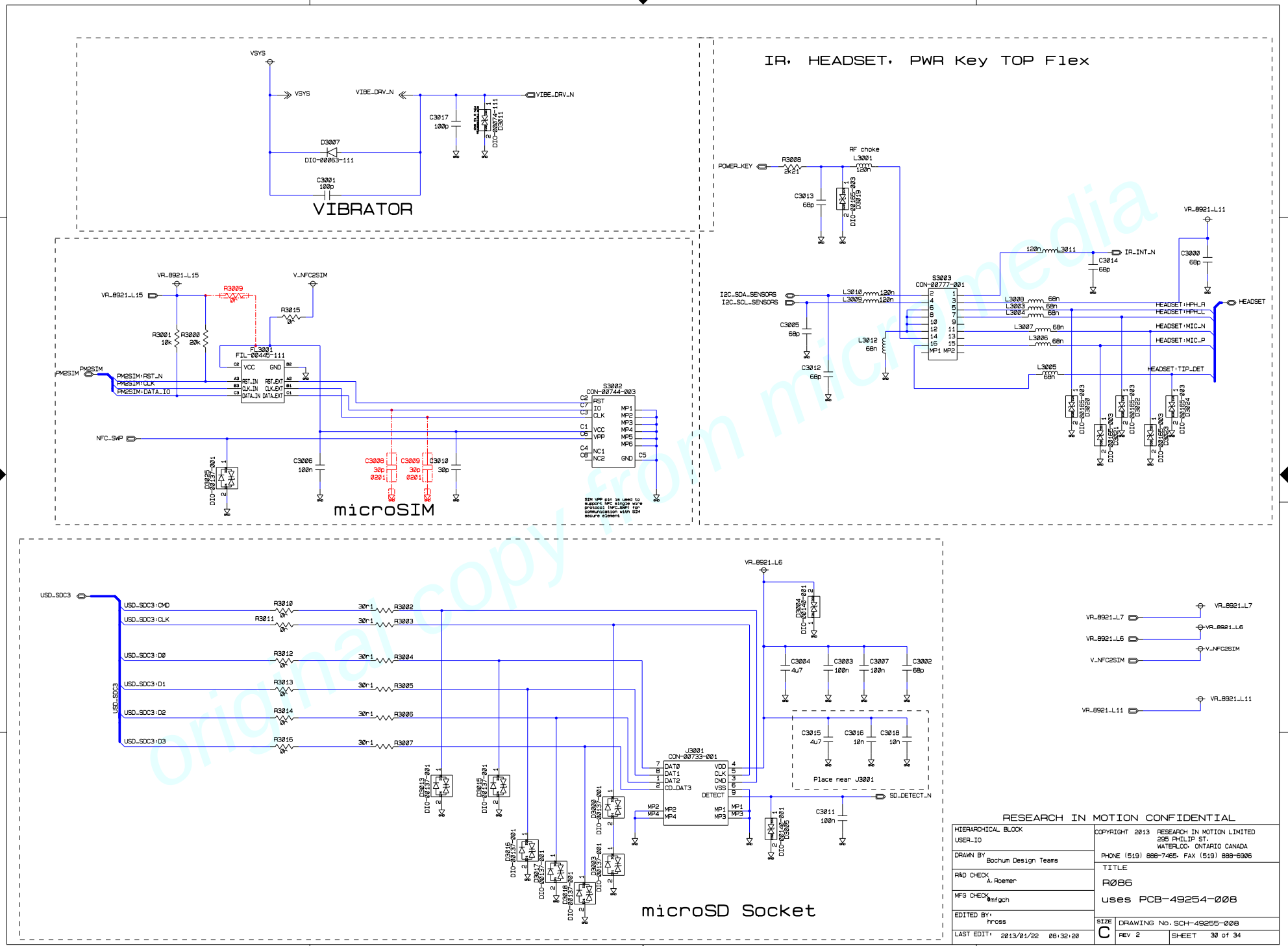


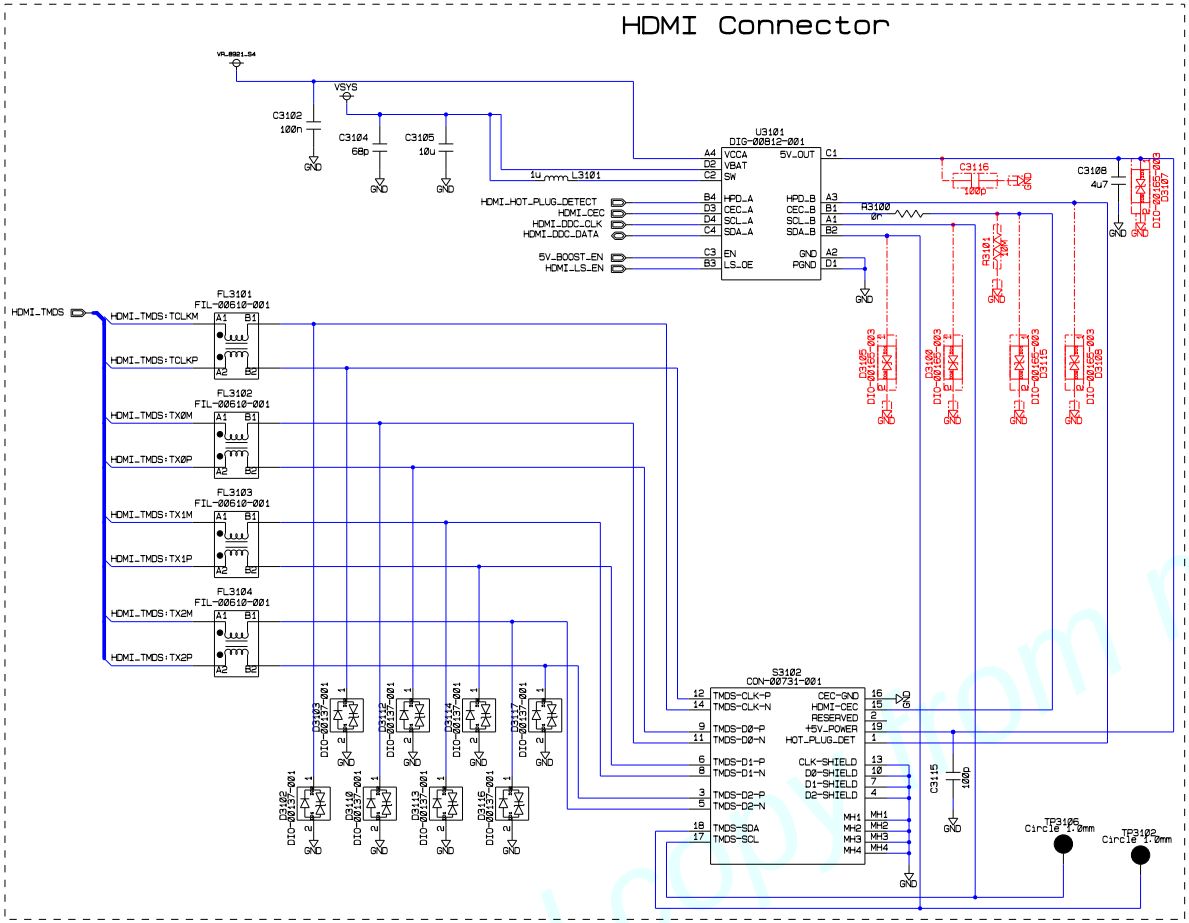
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DRAWN BY: Bochum Design Teams	TITLE
R&D CHECK: A. Roemer	R086
MFG CHECK: mfgch	uses PCB-49254-008
EDITED BY: cgondorf	SIZE C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:20	REV 2 — SHEET 29 of 34


VIBRATOR
IR, HEADSET, PWR Key TOP Flex
microSIM
microSD Socket
Place near J3001
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HIERARCHICAL BLOCK
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DRAWN BY Bochum Design Teams
R&D CHECK A.Roemer
MFG CHECK mfgch
EDITED BY: hross
LAST EDIT: 2013/01/22 08:32:20
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uses PCB-49254-008
SIZE C
DRAWING No. SCH-49255-008
REV 2
SHEET 30 of 34
Zuken CR-5000 System Designer

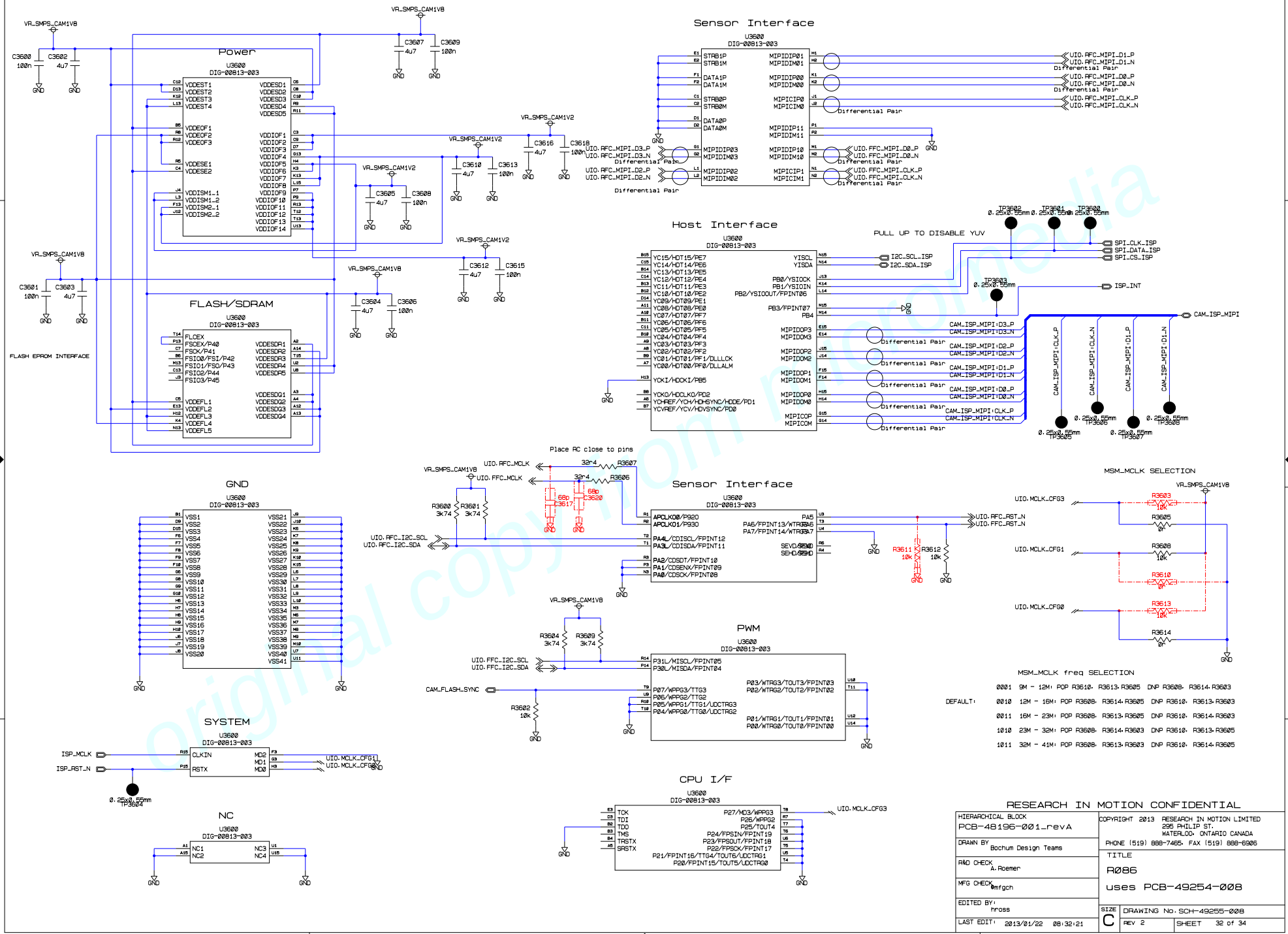


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DRAWN BY: Bochum Design Teams	TITLE: R086 uses PCB-49254-008
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Zuken CR-5000 System Designer



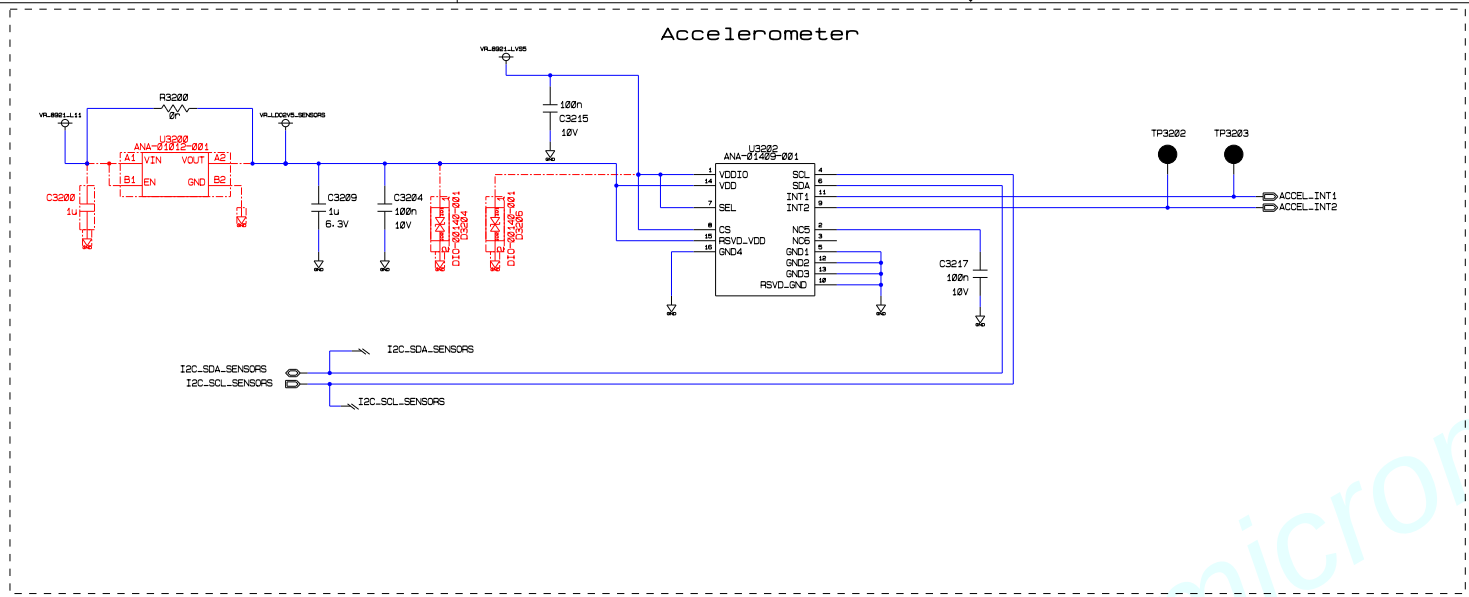
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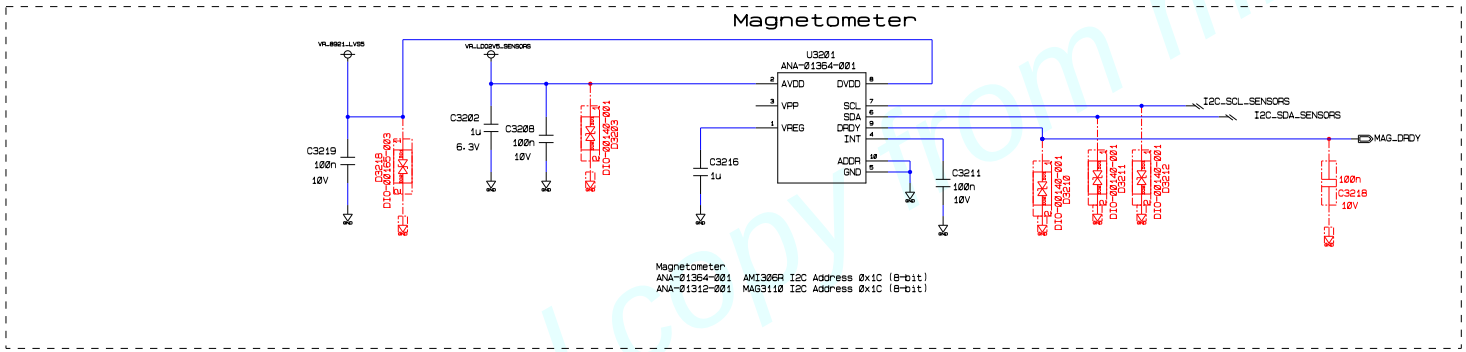
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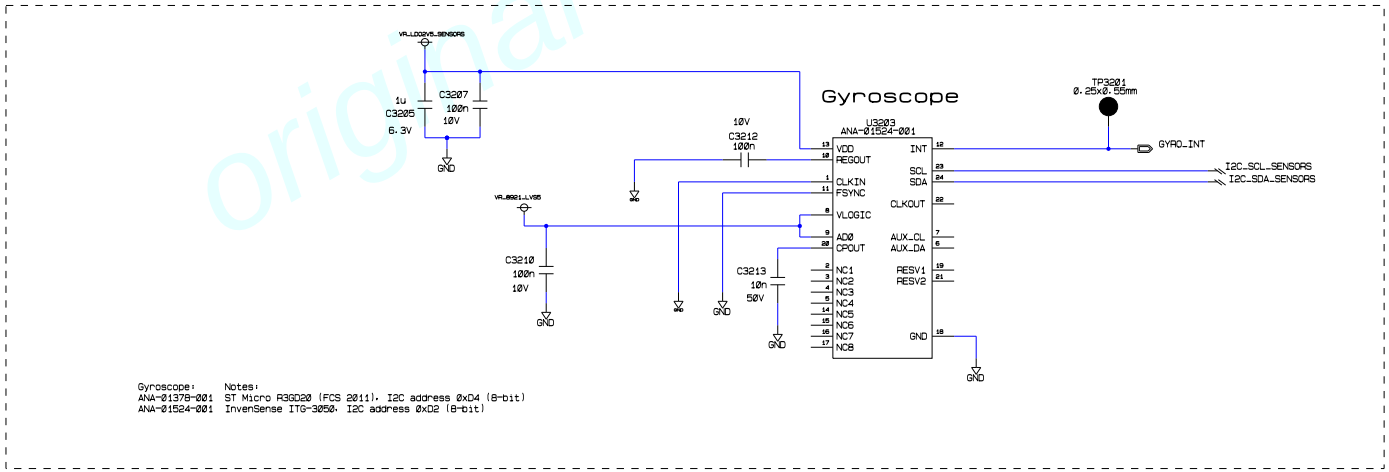
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DRAWN BY	Bochum Design Teams
R&D CHECK	A. Roemer
MFG CHECK	@mfgch
EDITED BY:	hross
LAST EDIT:	2013/01/22 08:32:21
TITLE	R086 uses PCB-49254-008
SIZE	C
DRAWING No.	SCH-49255-008
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SHEET	32 of 34

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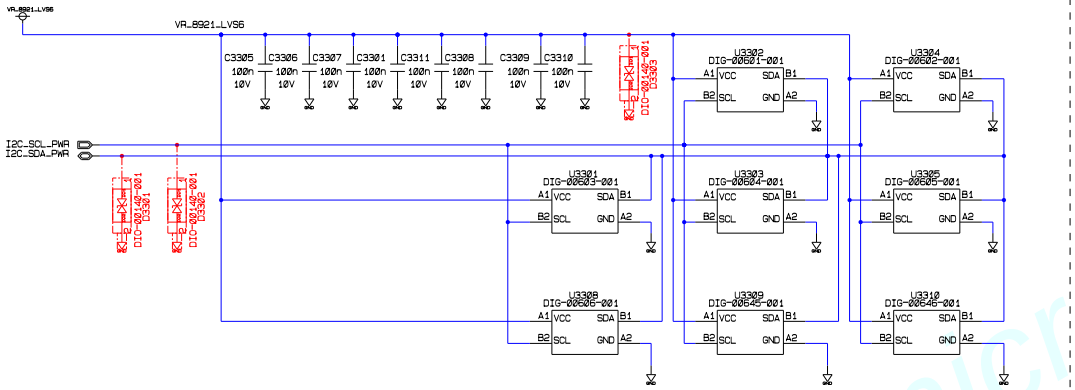
HIERARCHICAL BLOCK: SENSORS	COPYRIGHT 2013 RESEARCH IN MOTION LIMITED 295 PHILIP ST. WATERLOO, ONTARIO CANADA PHONE (519) 888-7465, FAX (519) 888-6906
DRAWN BY: Bochum Design Teams	TITLE: R086 uses PCB-49254-008
R&D CHECK: A. Roemer	
MFG CHECK: mfgcn	
EDITED BY: hross	SIZE: C — DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:17	REV 2 — SHEET 33 of 34

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VR_8921_S4

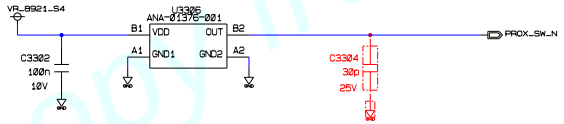
VR_8921_LVS6

TEMPERATURE SENSORS

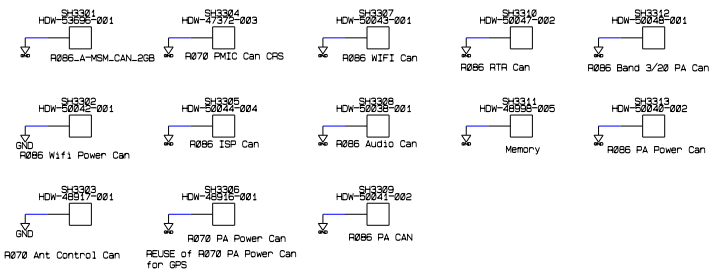


U3301 -> Temp Sensor 2 sl_addr=0x72. CaseMarking: TC -> location: Band8/20 PAs
U3302 -> Temp Sensor 0 sl_addr=0x70. CaseMarking: TA -> location: PMIC_primary side
U3303 -> Temp Sensor 3 sl_addr=0x73. CaseMarking: TD -> location: WIFI/BT
U3304 -> Temp Sensor 1 sl_addr=0x71. CaseMarking: TB -> location RTR8600
U3305 -> Temp Sensor 4 sl_addr=0x74. CaseMarking: TE -> location: PMIC_secondary side
U3308 -> Temp Sensor 5 sl_addr=0x75. CaseMarking: TF -> location: GSM/UMTS Band1/5/7 PA
U3309 -> Temp Sensor 6 sl_addr=0x76. CaseMarking: TG -> location: RFC
U3310 -> Temp Sensor 7 sl_addr=0x77. CaseMarking: TH -> location: MSM8960

MAGNETIC HOLSTER SENSOR



Shield CANS



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DRAWN BY Bochum Design Teams	TITLE R086 uses PCB-49254-008
R&D CHECK A.Roemer	
MFG CHECK mfgch	
EDITED BY: hross	SIZE C DRAWING No. SCH-49255-008
LAST EDIT: 2013/01/22 08:32:17	REV 2 SHEET 34 of 34

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